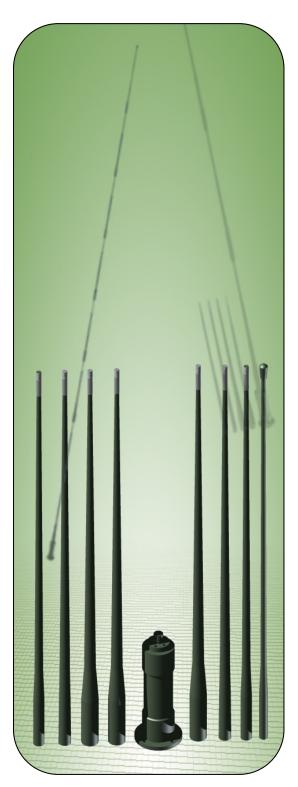
Base Station







The TDMP2X15 and TDMP3X10 are rugged transportable tactical antennas that can be erected in a minimal space. The basic antenna kit comes with eight 4 ft. (1.22 m) sections of fiberglass radiators that screw together. Two 50 ft. (15.24 m) ground radials and three guying rope assemblies plus all other hardware required.

Model Number	Description
TDMP2X15 & TDMP3X10	Kit requiring a tuner (user supplied)
TDMP2X15AB & TDMP3X10AB	Kit with waterproof tuner. (200 Watts or up to 1 KW)
TDMP2X15AC & TDMP3X10AC	Kit with broadband matching which requires no tuner



Specifications

ELECTRICAL:

Frequency Range: 2-30 & 3-30 MHz

Input Impedance: 50 Ω Nominal

Power: 1 kilowatt CW

Polarization: Vertical

Radiation Pattern: Omnidirectional

MECHANICAL:

Operational Temps: -58° to +176°F

 $(-50^{\circ} \text{ to } +80^{\circ}\text{C})$

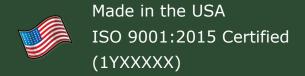
Maximum Wind Load: 80 mph (129 km/h)

Ground Plane: 4X 50 ft. (15.24 m) Radials

Color: Black/Green/Tan/Grey

Environmental: For all weather environments.

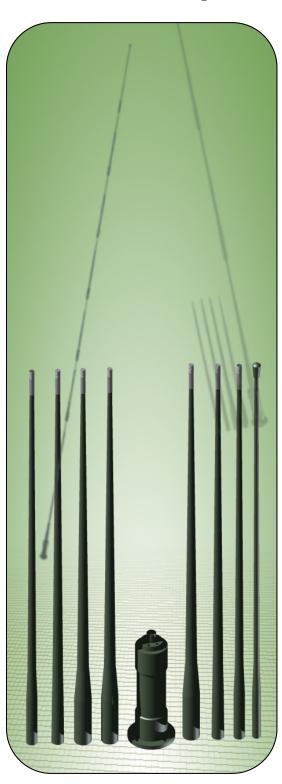
^{**}Specifications are subject to change without prior notice.



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Transportable Stake Antenna



The FXMP2X15 is a portable 2-30 MHz base station antenna that includes nine sections of radiator that are hand tightened together, a ground radial kit and two guying assemblies.

The larger diameter radiator and two guying assemblies provide a much improved steadying of the assembly to movements in the wind. This greatly enhances tuner stability and reduces/eliminates tuner variations of automatic tuners (i.e. "Tuner Hunting").



Transportable Stake Antenna

Specifications

ELECTRICAL:

Frequency Range: 2-30 MHz

Gain: 0.0-2.5 dBi Nominal

VSWR: Adjusted by RF Tuner

Input Impedance: Adjusted by RF Tuner

Power: 1 kilowatt

Polarization: Horizontal

Radiation Pattern: Azimuth: 360°

Elevation: 90°

Input Connector: Type N Female

MECHANICAL:

Overall Height: 33.5 ft. (10.21 m)

Radial Diameter: 100 ft. (30.48 m)

Max Wind Load: 100 mph (161 km/h)

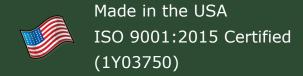
Net Weight: 10 lb. (4.54 kg)

Color: Black/Green/Tan/Grey

Install Time: Approx. 20 Minutes

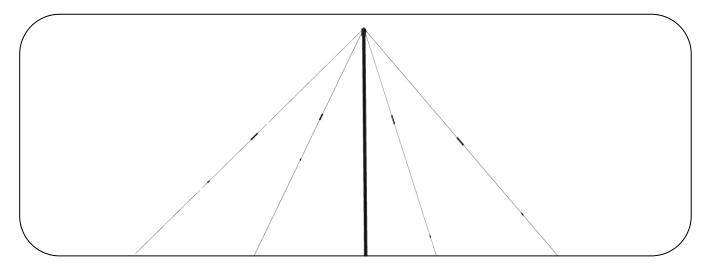
with 2 People

^{**}Specifications are subject to change without prior notice.



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The HF Tactical Deployable Backpack "Spider Web" antenna is designed to be a light weight, single man carry, and erectable fan dipole for all radios within the 2-30 MHz band. The antenna is highly adaptable in a tactical environment and can be erected and in operation within minutes by a single operator. The center matching network can be hung from a tree, eaves of a building, fiberglass mast, or places atop large builders or mounds of earth.





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ISO 9001:2015 Certified

Made in the USA







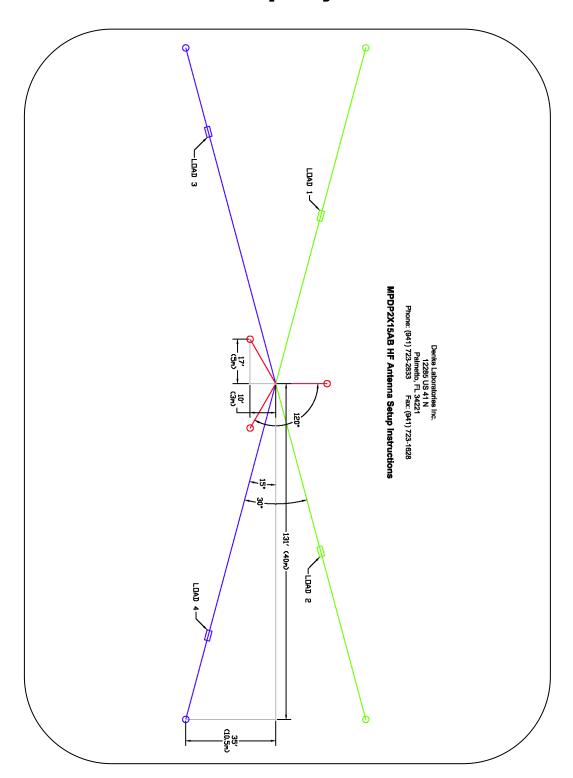














Specifications

ELECTRICAL:

Frequency Range: 2-30 MHz

Instantaneous Band Width: 28 MHz

VSWR: < 3.5:1 across frequency

band (Requires no tuner.)

Four each VSWR smoothing networks included.

Input Impedance: 50 Ω Nominal

Power: 200 Watts Max CW

Input Connector: Type N Female

Feed Cable: 50 Ω (Customer specified length.)

Configurations: Standard Fan Dipole,

Sloping Fan Dipole/Inverted "Vee",

Two Orthogonal dipoles.

MECHANICAL:

Mounting Height: 20 ft. (6.1 m) Recommended.

(Adaptable to tactical environment.)

Max Dipole Length: 234 ft. (71.3 m)

Erection Time: \sim 10 Min. (One person.)

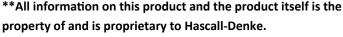
Operational Temps: -55° to +180°F

(-48° to +82°C)

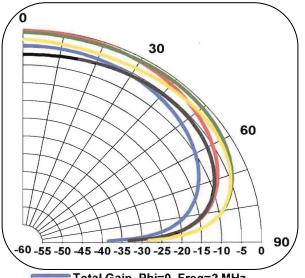
Maximum Wind Load: 80 mph (129 km/h)

Weight: < 12 lb. (5.4 kg)

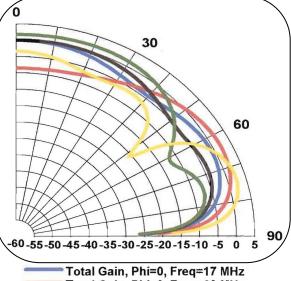
Color: Green/Tan



^{**}Specifications are subject to change without prior notice.



Total Gain, Phi=0, Freq=2 MHz
Total Gain, Phi=0, Freq=5 MHz
Total Gain, Phi=0, Freq=8 MHz
Total Gain, Phi=0, Freq=11 MHz
Total Gain, Phi=0, Freq=14 MHz



Total Gain, Phi=0, Freq=20 MHz
Total Gain, Phi=0, Freq=23 MHz
Total Gain, Phi=0, Freq=26 MHz
Total Gain, Phi=0, Freq=30 MHz

Gain (dBi):

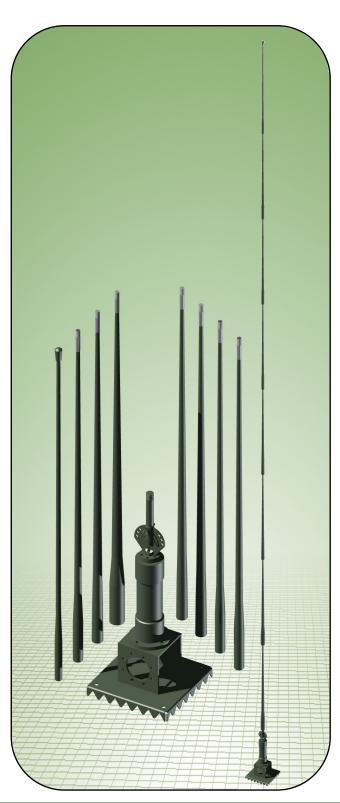
Antenna Pattern Gains for Typical Installation Shown

- *Antenna center mounted 30ft off ground
- *Wire end at insulators are mounted 6ft off ground
- *Wire ends at insulators
- *Antenna mounted over average soil





Tactical HF Antenna



The TDMP2X30 is designed to enhance the capabilities of the common HF tactical radio application by allowing tuner-less operation across the HF band. This antenna base has integral broadband impedance matching allowing broadband waveforms to be utilized even after the addition of higher power amplifiers.

Additionally, this antenna will cover 2-60 MHz with a VSWR of less than 3.5:1. For more efficient operation in the 2-5 MHz region of spectrum an accessory tuner is included to provide a lower VSWR required by some tactical transceiver products. The tuner can be located anywhere between the transceiver output and the input of the common mode choke. The tuner requires a DC voltage source of 11-16 Volts DC @ 750 mA. The connector provided with the antenna is a type N Female other connectors available upon request.

A 32ft (9.75 m) fiberglass whip, consisting of eight screw together sections, is mounted on top of a tilting whip adapter. The base matching unit is also provided with a cable assembly that includes a common mode RF choke.

Made in the USA



Tactical HF Antenna

Specifications

ELECTRICAL:

Frequency Range: 2-60 MHz

Gain: Unity

VSWR: 3.5:1 Maximum

Input Impedance: 50 Ω Nominal

Power: 200w

Polarization: Vertical

Input Connector: N-Female

Tuner: Included

EMP Protection: Yes

High Voltage

Protection: 20KV

High Voltage

Static Protection: Yes

MECHANICAL:

Overall Length: 34' 10'. (10.61m) Width:

20.5 in. (521mm)

Operational Temps: $+14^{\circ}$ to $+131^{\circ}$ F (-10° to $+55^{\circ}$ C)

Storage Temps: -4° to +160°F (-20° to +71°C)

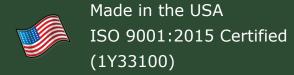
Color: Green, Tan, Black, Other

Mounting: 12x12 in. Mounting Plate with

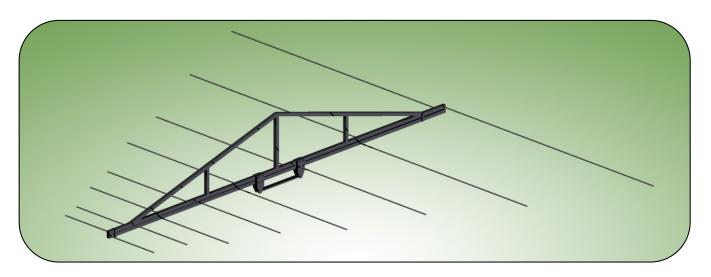
Teeth and 6 in. Riser

Compliance: Built to meet MIL-STD-810F **All information on this product and the product itself is the property of and is proprietary to Hascall-Denke.

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The FXLP20X5 is a broadband log periodic antenna that covers the entire band of 20-100 MHz. It is designed to achieve the maximum gain with minimum size and robust construction for harsh environments.



Specifications

ELECTRICAL:

Frequency Range: 20-100 MHz

Gain: 6 dBi Nominal

VSWR: 3:1 Nominal

Input Impedance: 50 Ω Nominal

Power: 200 Watts

Polarization: Horizontal

Front-to-Back Ratio: 12 dB

Input Connector: Type N Female

MECHANICAL:

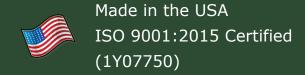
Boom Length: 310 in. (7.87 m)

Element Span: 300 in. (7.62 m)

Number Of Elements: 8 Elements

Color: Black/Green/Tan/Grey

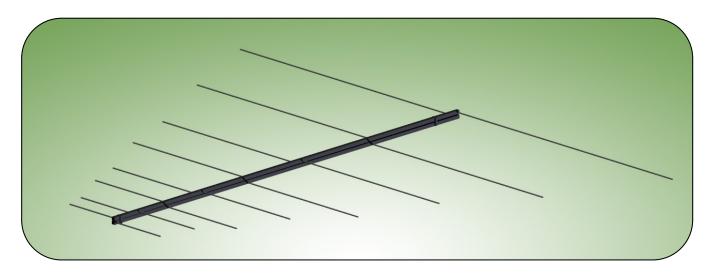
^{**}Specifications are subject to change without prior notice.



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The FXLP25X4 is a broadband log periodic antenna that covers the entire band of 25-90 MHz. It is designed to achieve the maximum gain with minimum size and robust construction for harsh environments.



Specifications

ELECTRICAL:

Frequency Range: 25-90 MHz

Gain: 6 dBi Nominal

VSWR: < 2.0:1 Typical

Input Impedance: 50 Ω Nominal

Power: 200 Watts

Polarization: Horizontal

Front-to-Back Ratio: 16 dB

Input Connector: Type N Female or TNC Female

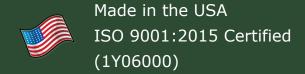
MECHANICAL:

Boom Length: 16 ft. (4.88 m)

Element Span: 20 ft. (6.12 m)

Number Of Elements: 8 Elements

^{**}Specifications are subject to change without prior notice.



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The FXLP30X3 is a broadband log periodic antenna that covers the entire band of 30-110 MHz. It is designed to achieve the maximum gain with minimum size and robust construction for harsh environments.

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Specifications

ELECTRICAL:

Frequency Range: 30-110 MHz

Gain: 5.5 dBi Nominal

VSWR: < 3.0:1 Typical

3.5:1 Maximum

Input Impedance: 50 Ω Nominal

Power: 600 Watts CW Continuous

Polarization: Horizontal or Vertical

Front-to-Back Ratio: 12 dB Average

Input Connector: Type N Female

MECHANICAL:

Boom Length: 110 in. (2.79 m)

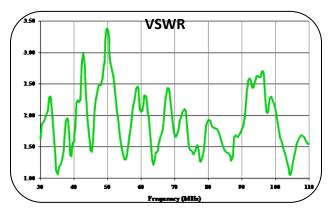
Element Span: 200 in. (5.08 m)

Number Of Elements: 9 Elements

Maximum Wind Load: 124 mph (200 km/h)

Net Weight: 70 lb. (31.8 kg)

Color: Black/Green/Tan/Grey

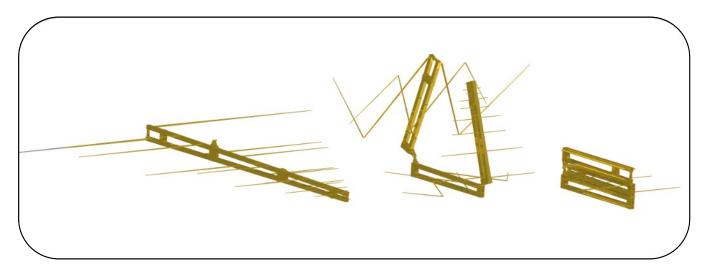


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The FXLP30X17 is a broadband log periodic antenna that covers the entire band of 30-512 MHz. It is designed to achieve the maximum gain with minimum size and robust construction for harsh environments. The antenna folds in two places allowing for a reduced size during transport and setup.



Specifications

ELECTRICAL:

Frequency Range: 30-512 MHz

Gain: 6 dBi Nominal

VSWR: < 2.0:1 Typical

Input Impedance: 50 Ω Nominal

Power: 850 Watts CW

Polarization: Horizontal or Vertical

Input Connector: Type N Female

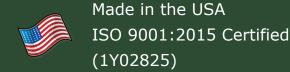
MECHANICAL:

Boom Length: 162 in. (4.12 m)

Element Span: 205 in. (5.21 m)

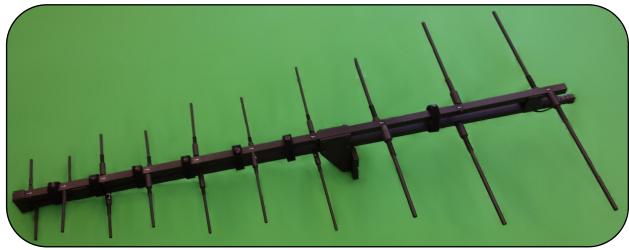
Number Of Elements: 14 Elements

^{**}Specifications are subject to change without prior notice.



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The FXLP30X17AB is a broadband log periodic antenna that covers the entire band of 30-512 MHz. It is designed to achieve the maximum gain with minimum size and robust construction for harsh environments.



Specifications

ELECTRICAL:

Frequency Range: 30-512 MHz

Gain: 5.5 dBi Nominal

VSWR: < 2.0:1 Typical

2.5:1 Maximum

Input Impedance: 50 Ω Nominal

Power: 1 kW

Polarization: Horizontal or Vertical

Front-to-Back Ratio: 12 dB Average

Input Connector: Type N Female

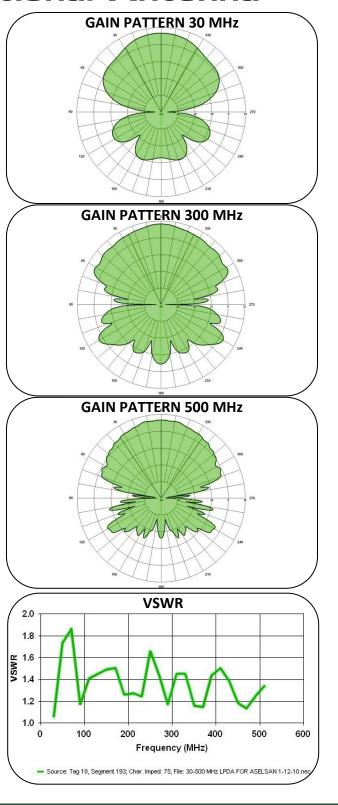
MECHANICAL:

Boom Length: 162 in. (4.11 m)

Element Span: 200 in. (5.08 m)

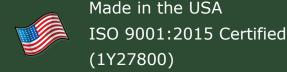
Number Of Elements: 14 Elements

Net Weight: 80 lb. (36.3 kg)



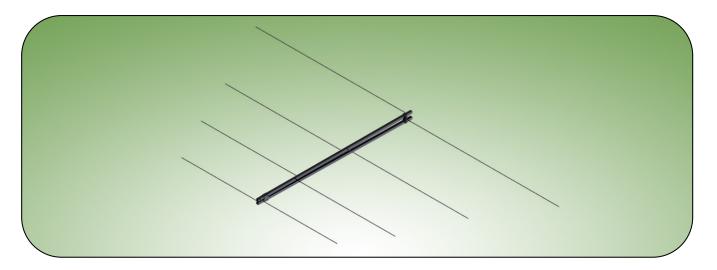
^{**}All information on this product and the product itself is the property of and is proprietary to Hascall-Denke.

^{**}Specifications are subject to change without prior notice.





Narrowband Directional Antenna



The FXLP43-53 is a narrowband log periodic antenna that covers 43-53 MHz with superior gain. It is designed to achieve the maximum gain with minimum size and robust construction for harsh environments.



Narrowband Directional Antenna

Specifications

ELECTRICAL:

Frequency Range: 43-53 MHz

Gain: 9 dBi Nominal

VSWR: < 2.0:1 Typical

Input Impedance: 50 Ω Nominal

Power: 200 Watts

Polarization: Horizontal or Vertical

Front-to-Back Ratio: 22 dB @ 48 MHz

Input Connector: Type N Female

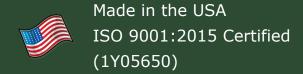
MECHANICAL:

Boom Length: 76.7 in. (1.95 m)

Element Span: 151 in. (3.84 m)

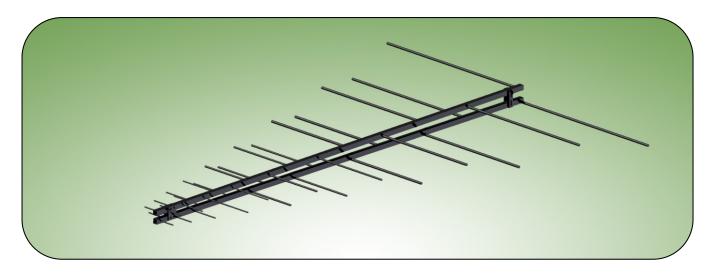
Number Of Elements: 4 Elements

^{**}Specifications are subject to change without prior notice.



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The FXLP88X7 is a broadband log periodic antenna that covers the entire band of 88-600 MHz. It is designed to achieve the maximum gain with minimum size and robust construction for harsh environments.



Specifications

ELECTRICAL:

Frequency Range: 88-600 MHz

Gain: 12 dBi Nominal

VSWR: < 2.5:1 Typical

Input Impedance: 50 Ω Nominal

Power: 1 kilowatt

Polarization: Horizontal or Vertical

Front-to-Back Ratio: 20 dB

Input Connector: Type N Female

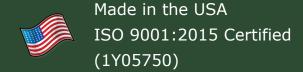
MECHANICAL:

Boom Length: 94.1 in. (2.39 m)

Element Span: 68.4 in. (1.74 m)

Number Of Elements: 17 Elements

^{**}Specifications are subject to change without prior notice.



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The TDLP90X5 is a broadband log periodic antenna to be used for tactical operations and covers the entire band of 90-500 MHz at a power level of 200 Watts it has a VSWR of less than 2.50:1 throughout the band providing an efficient match to all modern transceivers. It is designed to achieve the maximum gain with minimum size and robust construction for harsh environments.

- Broadband
- Directional
- High Gain
- Vertical or Horizontal Polarization
- Low VSWR

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Specifications

ELECTRICAL:

Frequency Range: 90-500 MHz

Gain: 5.5 dBi Nominal

VSWR: 2.5:1 Maximum

Input Impedance: 50 Ω Nominal

Power: 200 Watts CW

Polarization: Horizontal or Vertical

Front-to-Back Ratio: 12 dB

Input Connector: Type N Female

MECHANICAL:

Boom Length: 48 in. (1.22 m)

Element Span: 60 in. (1.52 m) Deployed

Nested Envelope: 50 in. (1.27 m) Long

12 in. (0.30 m) Diameter

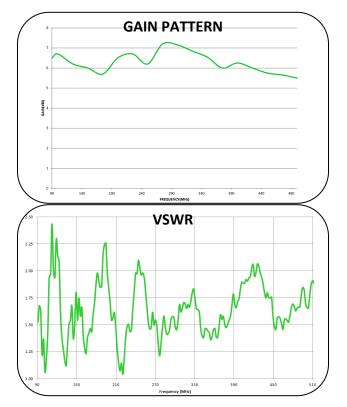
Deployment Time: 2 min. approx.

Nesting Time: 5 min. approx.

Number Of Elements: 10 Elements

Maximum Wind Load: 120 mph (195 km/h) Static

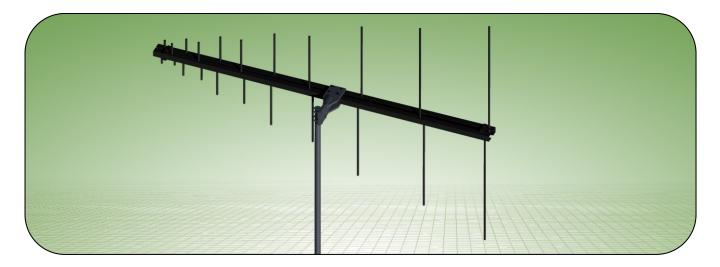
Net Weight: 5 lb. (2.3 kg)



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^{**}Specifications are subject to change without prior notice.





The FXLP90X5 is a broadband log periodic antenna that covers the entire band of 90-512 MHz. It is designed to achieve the maximum gain with minimum size and robust construction for harsh environments.

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Specifications

ELECTRICAL:

Frequency Range: 90-512 MHz

Gain: 5.5 dBi Nominal

VSWR: 2.5:1 Maximum

Input Impedance: 50 Ω Nominal

Power: 600 Watts CW

Polarization: Horizontal or Vertical

Front-to-Back Ratio: 12 dB

Input Connector: Type N Female

MECHANICAL:

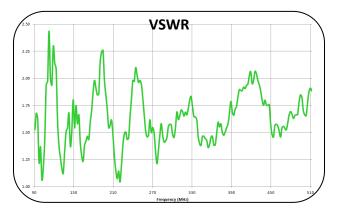
Boom Length: 48 in. (1.22 m)

Element Span: 60 in. (1.52 m)

Number Of Elements: 10 Elements

Max Wind Load: 115 mph (185 km/h)

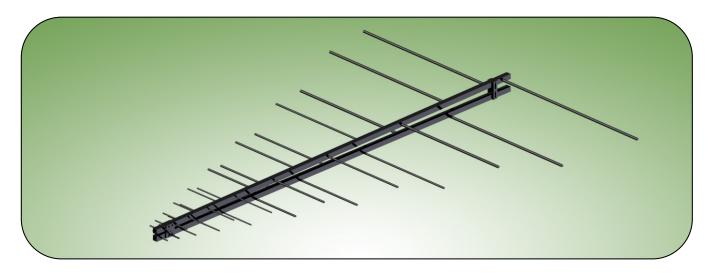
Net Weight: 13 lb. (5.9 kg)



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^{**}Specifications are subject to change without prior notice.





The FXLP88X11 is a broadband log periodic antenna that covers the entire band of 88-1000 MHz. It is designed to achieve the maximum gain with minimum size and robust construction for harsh environments.



Specifications

ELECTRICAL:

Frequency Range: 88-1000 MHz

Gain: 8 dBi Nominal

VSWR: < 2.0:1 Typical

Input Impedance: 50 Ω Nominal

Power: 1 kilowatt

Polarization: Horizontal or Vertical

Front-to-Back Ratio: 25 dB

Input Connector: Type N Female

MECHANICAL:

Boom Length: 88.5 in. (2.17 m)

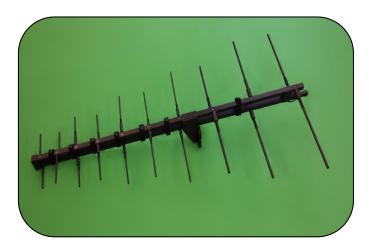
Element Span: 68.5 in. (1.74 m)

Number Of Elements: 18 Elements

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^{**}Specifications are subject to change without prior notice.







The TDLP100X5 is a broadband log periodic antenna that covers the entire band of 100-520 MHz. It is designed to achieve the maximum gain with minimum size and robust construction for harsh environments. The TDLP100X5 has folding elements for quick setup and removal.

- Broadband
- Directional
- Low VSWR
- High Gain
- Vertical or Horizontal Polarization

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Broadband Directional AntennaSpecifications

ELECTRICAL:

Frequency Range: 100-520 MHz

Gain: 6.0 dBi Nominal

VSWR: 2.0:1 Maximum

Input Impedance: 50 Ω Nominal

Power: 1000 Watts CW

Polarization: Horizontal or Vertical

Beam Width: Azimuth: 3dB @ 60-120°

Elevation: 3dB @ 50-70°

Front-to-Back Ratio: 15 dB

Input Connector: Type N Female

MECHANICAL:

Boom Length: 59 in. (1.50 m)

Element Span: 60 in. (1.52 m)

Number Of Elements: 10 Elements

Max Wind Load: 115 mph (185 km/h)

Operating Temps: $14^{\circ} - 131^{\circ}F (-10^{\circ} - 55^{\circ}C)$

Storage Temps: $-4^{\circ} - 160^{\circ} F (-20^{\circ} - 71^{\circ} C)$

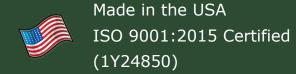
Net Weight: 20 lb. (9.1 kg)

Color: Green

Compliance: Built to meet: MIL-STD-810F

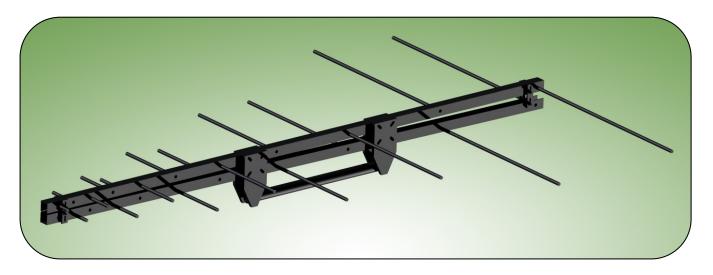
Mounting: Mast adapter as per spec.

^{**}Specifications are subject to change without prior notice.



^{**}All information on this product and the product itself is the property of and is proprietary to Hascall-Denke.





The FXLP100X10 is a broadband log periodic antenna that covers the entire band of 100-1000 MHz. It is designed to achieve the maximum gain with minimum size and robust construction for harsh environments.



Specifications

ELECTRICAL:

Frequency Range: 100-1000 MHz

Gain: 6 dBi Nominal

VSWR: < 2.0:1 Typical

Input Impedance: 50 Ω Nominal

Power: 1 kilowatt

Polarization: Horizontal or Vertical

Front-to-Back Ratio: 25 dB

Input Connector: Type N Female

MECHANICAL:

Boom Length: 77.25 in. (1.96 m)

Element Span: 60 in. (1.52 m)

Number Of Elements: 11 Elements

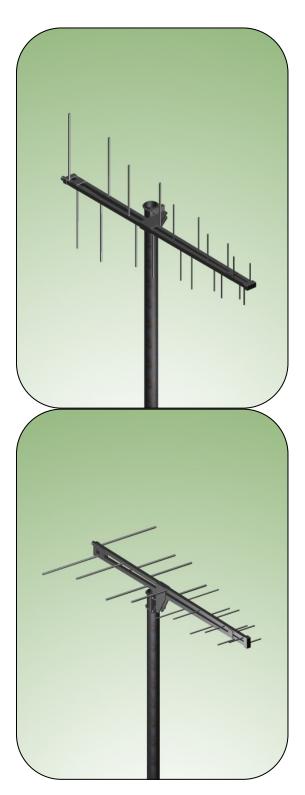
Color: Black/Green/Tan/Grey

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^{**}Specifications are subject to change without prior notice.





The FXLP225X2 is a broadband log periodic antenna to be used for fixed mast and public safety applications. The robust construction of this antenna provides operational reliability in the most severe environmental conditions.

The antenna has a band pass covering 225-450 MHz. A VSWR of less than 2.0:1 throughout the band with a single input at a power level of 200 Watts. The FXLP225X2 provides good gain and front-to-back ratio.

- Broadband
- Directional
- Low VSWR
- High Gain
- Vertical or Horizontal Polarization



Specifications

ELECTRICAL:

Frequency Range: 225-450 MHz

Gain: 7 dBi Nominal

VSWR: 2.0:1 Nominal

Input Impedance: 50 Ω Nominal

Power: 200 Watts

Polarization: Vertical or Horizontal

Radiation Pattern: $\approx 65^{\circ}$ -3 dB Beam Width

Input Connector: Type N Female

(Others Available)

MECHANICAL:

Boom Length: 60 in. (1.52 m)

Element Span: 29 in. (0.74 m)

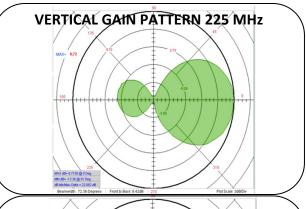
Number Of Elements: 10 Elements

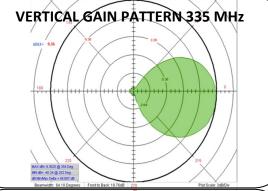
Maximum Wind Load: 125 mph (201 km/h)

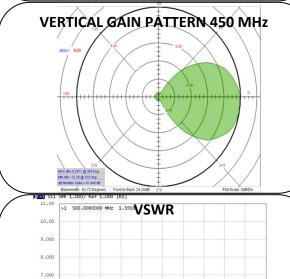
Net Weight: 5 lb. (2.27 kg)

Color: Black/Green/Tan/Grey

Mounting: Mounting Bracket Included





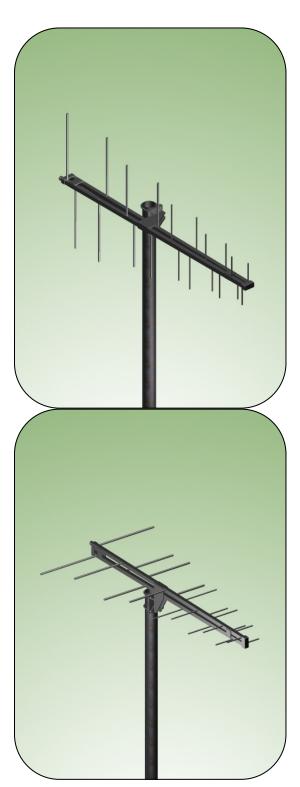




^{**}All information on this product and the product itself is the property of and is proprietary to Hascall-Denke.

^{**}Specifications are subject to change without prior notice.





The FXLP225X2AB is a broadband log periodic antenna to be used for fixed mast and public safety applications. The robust construction of this antenna provides operational reliability in the most severe environmental conditions.

The antenna has a band pass covering 225-450 MHz. A VSWR of less than 2.0:1 throughout the operating band with a single input at a power level of 200 Watts. The FXLP225X2AB provides good gain and front-to-back ratio.

- Broadband
- Directional
- Low VSWR
- High Gain
- Vertical or Horizontal Polarization



Specifications

ELECTRICAL:

Frequency Range: 225-512 MHz

Gain: 10 dBi Nominal

VSWR: 2.0:1 Nominal

Input Impedance: 50 Ω Nominal

Power: 200 Watts

Polarization: Vertical or Horizontal

Radiation Pattern: $\approx 65^{\circ}$ -3 dB Beam Width

Input Connector: Type N Female

(Others Available)

MECHANICAL:

Boom Length: 70 in. (1.78 m)

Element Span: 29 in. (0.74 m)

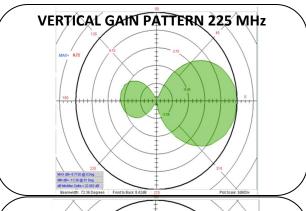
Number Of Elements: 13 Elements

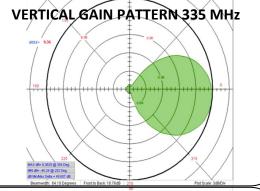
Maximum Wind Load: 125 mph (201 km/h)

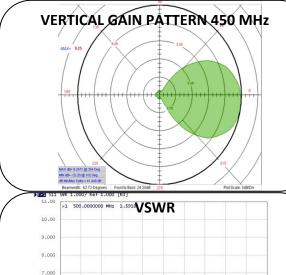
Net Weight: 5.5 lb. (2.49 kg)

Color: Black/Green/Tan/Grey

Mounting: Mounting Bracket Included









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^{**}Specifications are subject to change without prior notice.



Whitespace Antenna



The FXLP470-786-10 is a broadband log periodic antenna designed for TV White Space (TVWS) applications (fixed mast & rotatable). The robust construction of this antenna provides operational reliability in the most severe environmental conditions.

The antenna has a band pass covering 470-786 MHz with a single input. At a power level of 100 Watts it has a VSWR of less than 2.5:1 throughout the operational band which supplies an efficient match for all TVWS systems. With 10dBi of gain the FXLP470-786-10 provides low and affordable broadband connectivity to remote and non-line-of-sight areas.



Whitespace Antenna

Specifications

ELECTRICAL:

Frequency Range: 470-786 MHz

Gain: 10dBi ± .5dBi

VSWR: < 2.5:1

Input Impedance: 50 Ω Nominal

Power: 100 Watts

Polarization: Horizontal or Vertical

Front-to-Back Ratio: 12 dB

Input Connector: Type N Female

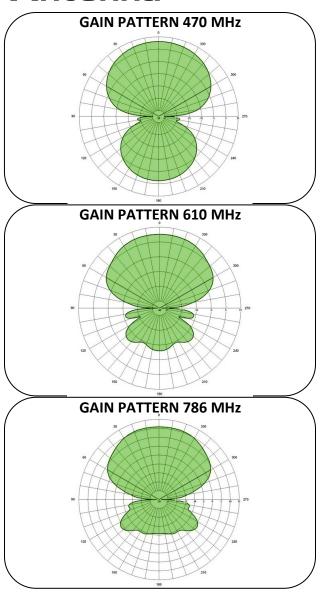
MECHANICAL:

Boom Length: 49 in. (1.25 m)

Element Span: 11.25 in. (0.29 m)

Number Of Elements: 16 Elements

Color: White/Black/Green/Tan/Grey



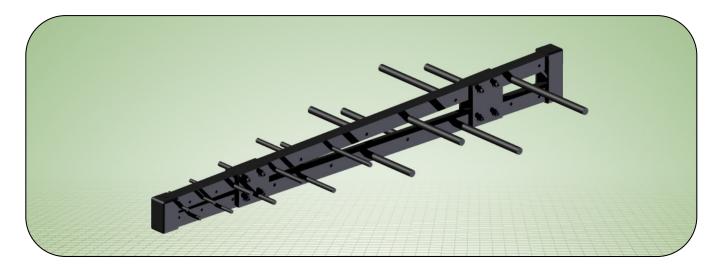
Made in the USA



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The FXLP500X5 is a broadband log periodic antenna designed to be used for fixed mast & rotatable applications. The robust construction of this antenna provides operational reliability in the most severe environmental conditions. The antenna has a band pass covering 500-2500 MHz with a single input. At a power level of 200 Watts it has a VSWR of less than 2.75:1 throughout the operational band to provide an efficient match to all modern public safety transceivers. The FXLP500X5 provides good gain and front-to-back ratio.

- Broadband
- Directional
- High Gain
- Low VSWR
- Vertical or Horizontal Polarization



Specifications

ELECTRICAL:

Frequency Range: 500-2500 MHz

Gain: 5.5 dBi Nominal

VSWR: 2.75:1 Maximum

Input Impedance: 50 Ω Nominal

Power: 200 Watts CW

Polarization: Horizontal or Vertical

Front-to-Back Ratio: 12 dB

Input Connector: TNC

(Others available upon request.)

MECHANICAL:

Boom Length: 26 in. (0.66 m)

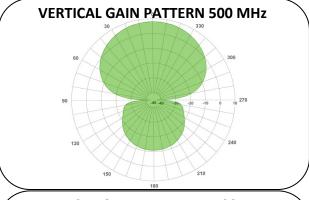
Element Span: 11.5 in. (0.29 m)

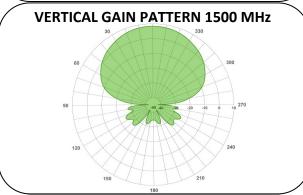
Number Of Elements: 26 Elements

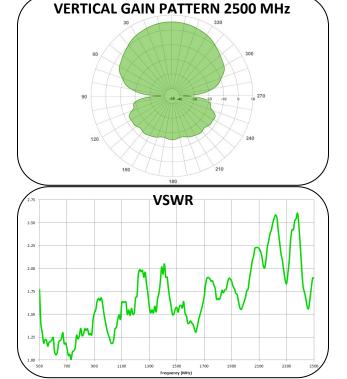
Max Wind Load: 125 mph (201 km/h)

Net Weight: 2 lb. (0.91 kg)

Color: Black/Green/Tan/Grey



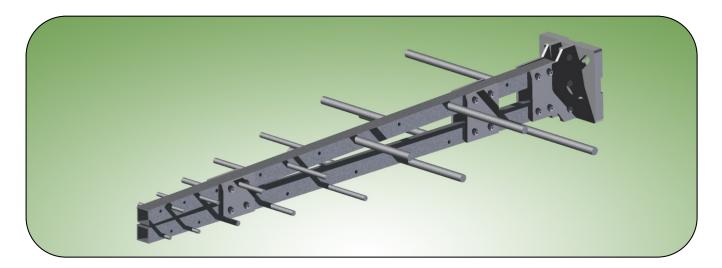




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The FXLP500X5AC is a broadband log periodic antenna designed to be used for fixed mast and public applications. The robust construction of this antenna provides operational reliability in the most severe environmental conditions. The antenna has a band pass covering 500-2500 MHz with a single input. At a power level of 200 Watts it has a VSWR of less than 2.75:1 throughout the operational band to provide an efficient match to all modern public safety transceivers. The FXLP500X5AB provides good gain and front-to-back ratio.

- Broadband
- Directional
- High Gain
- Low VSWR
- Vertical or Horizontal Polarization



Specifications

ELECTRICAL:

Frequency Range: 500-2500 MHz

Gain: 5.5 dBi Nominal

VSWR: 2.75:1 Maximum

Input Impedance: 50 Ω Nominal

Power: 200 Watts CW

Polarization: Horizontal or Vertical

Front-to-Back Ratio: 12 dB

Input Connector: TNC

(Others available upon request.)

Beam Width: Vertical: 25°-35°

Horizontal: 30°-60°

MECHANICAL:

Boom Length: 26 in. (0.66 m)

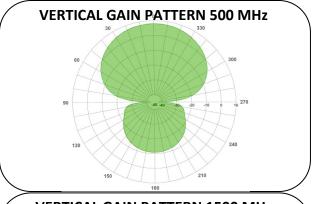
Element Span: 11.5 in. (0.29 m)

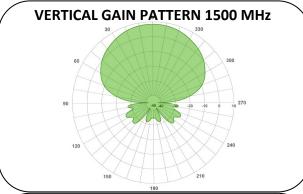
Number Of Elements: 13 Elements

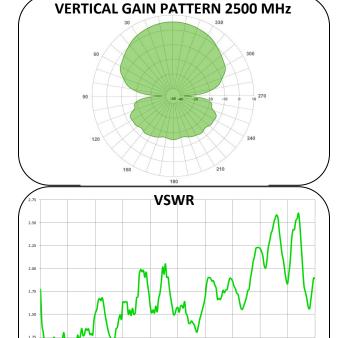
Max Wind Load: 75mph (120km/h)

Net Weight: 2 lb. (0.91 kg)

Color: Black/Green/Tan/Grey



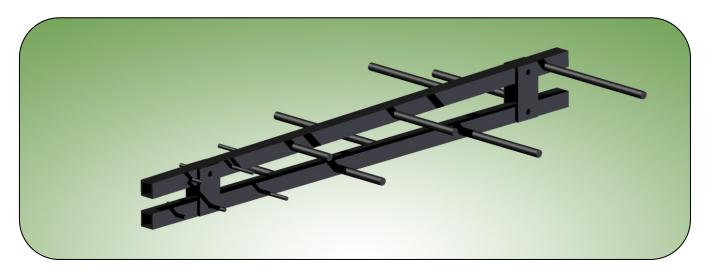




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^{**}Specifications are subject to change without prior notice.





The FXLP800X3 is a broadband log periodic antenna that covers the entire band of 800-2100 MHz. It is designed to achieve the maximum gain with minimum size and robust construction for harsh environments.



Specifications

ELECTRICAL:

Frequency Range: 800-2100 MHz

Gain: See Charts

VSWR: < 2.5:1

Input Impedance: 50 Ω Nominal

Power: 50 Watts

Polarization: Horizontal or Vertical

Front-to-Back Ratio: See Charts

Input Connector: SMA Female

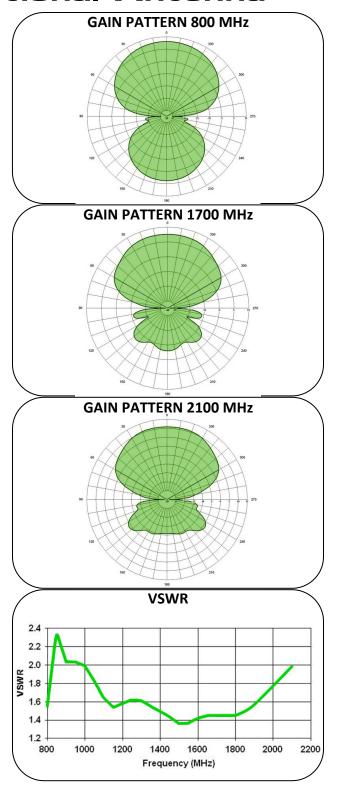
MECHANICAL:

Boom Length: 17.62 in. (0.45 m)

Element Span: 8.88 in. (0.23 m)

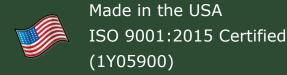
Number Of Elements: 10 Elements

Color: Black/Green/Tan/Grey



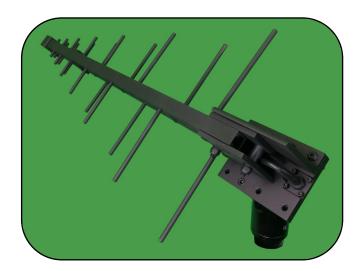
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^{**}Specifications are subject to change without prior notice.









The FXLP500X5-7 is a broadband log periodic antenna designed to be used for fixed mast & rotatable applications. The robust construction of this antenna provides operational reliability in the most severe environmental conditions. The antenna has a band pass covering 500-2500 MHz with a single input. At a power level of 400 Watts it has a VSWR of less than 2.75:1 throughout the operational band to provide an efficient match to all modern public safety transceivers. The FXLP500X5-7 provides good gain and front-to-back ratio.

- Broadband
- Directional
- High Gain
- Low VSWR
- Vertical or Horizontal Polarization



Specifications

ELECTRICAL:

Frequency Range: 500-2500 MHz

Gain: 7.5 dBi Minimum for all freq. range

VSWR: 2.75:1 Maximum

Input Impedance: 50 Ω Nominal

Power: 400 Watts CW

Polarization: Horizontal or Vertical

Front-to-Back Ratio: 20 dB

Input Connector: N Type Female Located in Center

3dB Elevation Beam Width

Elevation: Azimuth:

500 MHz—53° 500 MHz—74° 1500 MHz—40° 1500 MHz—77° 2500 MHz—35° 2500 MHz—60°

MECHANICAL:

Boom Length: 23 in. (0.59 m)

Element Span: 11.5 in. (0.29 m) (Total Length)

Number Of Elements: 13 Elements

Max Wind Load: 125 mph (201 km/h)

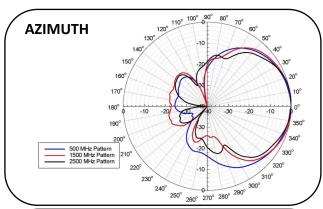
Net Weight: 4 lb. (1.8 kg)

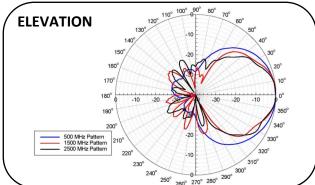
Color: Green

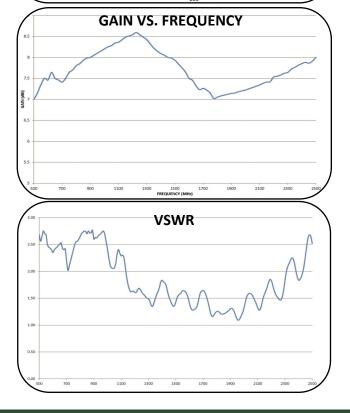
Compliance: Built To meet MIL-STD-810F

Operational Temps: -10°C to 55°C **Storage Temps:** -20°C to 71°C

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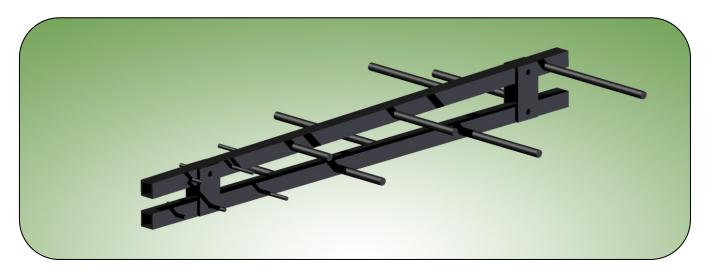


Made in the USA ISO 9001:2015 Certified (1Y32000)

P.O. Box 909, Palmetto, Florida 34220-0909 Tel: 941-723-2833 • Fax: 941-723-1628 www.hascall-denke.com

^{**}Specifications are subject to change without prior notice.





The FXLP1200X2 is a broadband log periodic antenna that covers the entire band of 1200-2000 MHz. It is designed to achieve the maximum gain with minimum size and robust construction for harsh environments.



Specifications

ELECTRICAL:

Frequency Range: 1200 - 2000 MHz

Gain: 10 dBi +/-.5

VSWR: < 2.25:1

Input Impedance: 50 Ω Nominal

Power: 50 Watts

Polarization: Horizontal or Vertical

Front-to-Back Ratio: 22 - 28 dB

Input Connector: TNC Female

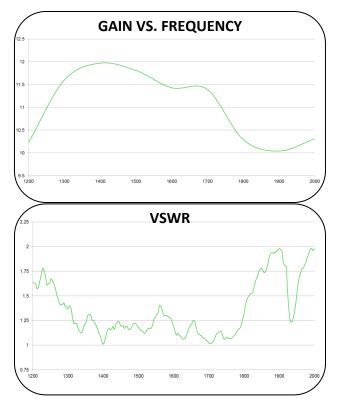
MECHANICAL:

Boom Length: 23 in. (0.58 m)

Element Span: 5.0 in. (127 mm)

Number Of Elements: 16 Elements

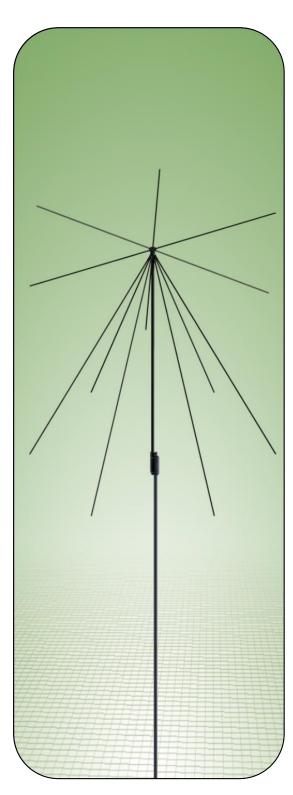
Color: Black/Green/Tan/Grey



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The FXDC25X4 is a fixed base station, omnidirectional antenna designed to give the most uniform radiation pattern throughout the entire frequency spectrum of 25-100 MHz.

The general pattern approximates ideal hemispherical coverage for:

- Base Station Communication
- Ship-to-Shore Communication
- Surface-to-Air Communication

In general, the unity gain is most suited for diversified base station operations.

- Uniform 360 Degrees Azimuth Coverage
- Vertical Polarization.
- Low VSWR.

UM003 Mast Adapter sold separately.



Specifications

ELECTRICAL:

Frequency Range: 25-100 MHz

Gain: 2.0 dBi @ 30 MHz

1.5 dBi @ 60 MHz 0.0 dBi @ 90 MHz

VSWR: 3.0:1 Maximum

Input Impedance: 50 Ω Nominal

Power: 250 Watts PEP and AVE

Polarization: Vertical

Radiation Pattern: Azimuth: 360°

Elevation: 90°

Input Connector: Type N Female

MECHANICAL:

Overall Height: 10.2 ft. (3.10 m)

Cone Diameter: 11.7 ft. (3.56 m)

Number Of Elements: 6 Cone & 6 Disc

Maximum Wind Load: 115 mph (185 km/h)

Color: Black/Green/Tan/Grey

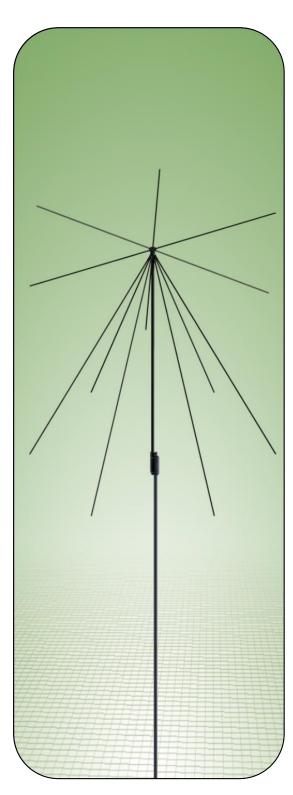
Mounting: UM003 Mast Adapter

(Sold Separately)

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^{**}Specifications are subject to change without prior notice.





The FXDC30X3 is a fixed base station, omnidirectional antenna designed to give the most uniform radiation pattern throughout the entire frequency spectrum of 30-90 MHz.

The general pattern approximates ideal hemispherical coverage for:

- Base Station Communication
- Ship-to-Shore Communication
- Surface-to-Air Communication

In general, the unity gain is most suited for diversified base station operations.

- Uniform 360 Degrees Azimuth Coverage
- Vertical Polarization.
- Low VSWR.

UM003 Mast Adapter sold separately.



Specifications

ELECTRICAL:

Frequency Range: 30-90 MHz

Gain: 2.0 dBi @ 30 MHz

1.5 dBi @ 60 MHz 0.0 dBi @ 90 MHz

VSWR: 3.0:1 Maximum

Input Impedance: 50 Ω Nominal

Power: 250 Watts PEP and AVE

Polarization: Vertical

Radiation Pattern: Azimuth: 360°

Elevation: 90°

Input Connector: Type N Female

MECHANICAL:

Overall Height: 9.7 ft. (2.79 m)

Cone Diameter: 9.3 ft. (2.84 m)

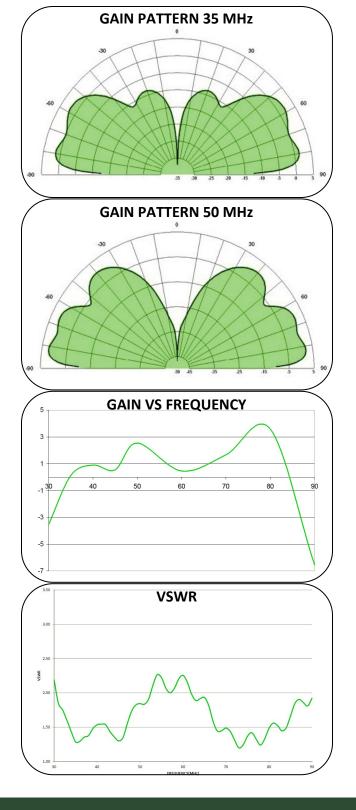
Number Of Elements: 6 Cone & 6 Disc

Net Weight: 14 lb. (6.35 kg)

Color: Black/Green/Tan/Grey

Mounting: UM003 Mast Adapter

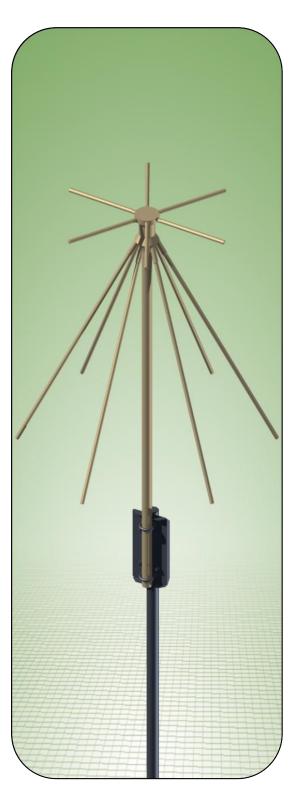
(Sold Separately)



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The FXDC100X5 has omnidirectional coverage throughout the entire frequency spectrum of 100-500 MHz.

This antenna is an ideal choice for broadband:

- Base Station Communication
- Ship-to-Shore Communication
- Surface-to-Air Communication

UM003 Mast Adapter sold separately.



Specifications

ELECTRICAL:

Frequency Range: 100-500 MHz

Gain: $0.0 \sim 2.5 \text{ dBi}$

VSWR: < 2.0:1 Typical

Input Impedance: 50 Ω Nominal

Power: 200 Watts PEP and AVE

Polarization: Vertical

Radiation Pattern: Azimuth: 360°

Elevation: 90°

Input Connector: Type N Female

MECHANICAL:

Overall Height: 59.5 in. (1.51 m)

Cone Diameter: 36 in. (.91 m)

Number Of Elements: 6 Cone & 6 Disc

Maximum Wind Load: 125 mph (201 km/h)

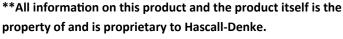
80 mph (128 km/h) with 1/2" Radial Ice

Net Weight: 9 lb. (4.08 kg)

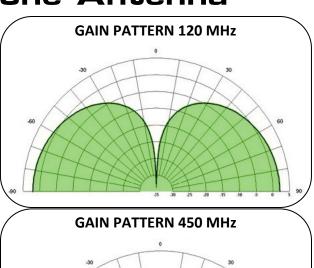
Color: Black/Green/Tan/Grey

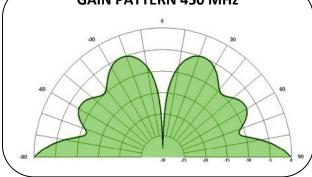
Mounting: UM003 Mast Adapter

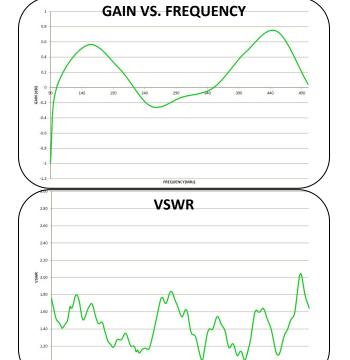
(Sold Separately)



^{**}Specifications are subject to change without prior notice.









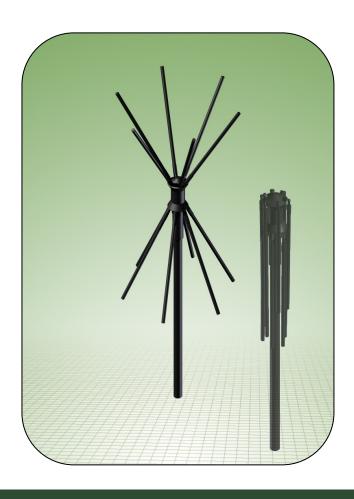
Tactical Biconical Antenna



The TDBC100X5 antenna is designed to be used in tactical military applications where reliability is needed most. This antenna works with all radios within the 100-512 MHz band.

The antenna is spring loaded for quick erection and stowing for quick up and down tactical communications.

UM003 Mounting Bracket sold separately.





Tactical Biconical Antenna

Specifications

ELECTRICAL:

Frequency Range: 100-512 MHz

Gain: 2.0 dBi Nominal

VSWR: < 2.75:1 Typical

3.0:1 Maximum

Input Impedance: 50 Ω Nominal

Power: 400 Watts

Polarization: Vertical

Radiation Pattern: Azimuth: 360°

Elevation: 90°

Input Connector: Type N Female

MECHANICAL:

Overall Height: 50 in. (1.27 m)

Cone Diameter: 16.75 in. (0.43 m)

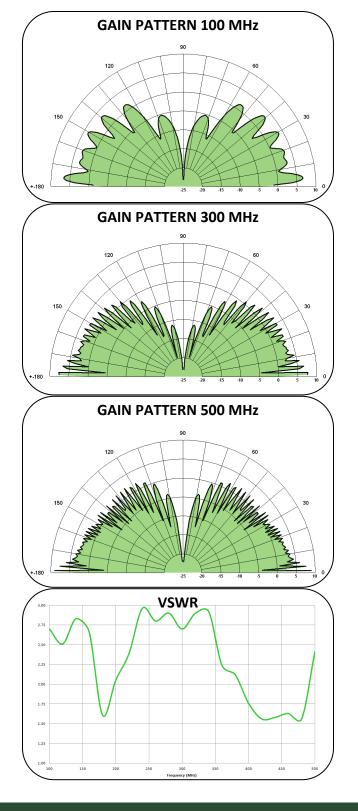
Number Of Elements: 6 Cone & 6 Bottom

Net Weight: 9.5 lb. (4.30 kg)

Color: Black/Green/Tan/Grey

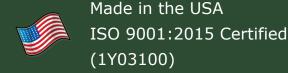
Mounting: UM003 Mounting Bracket

(Sold Separately)



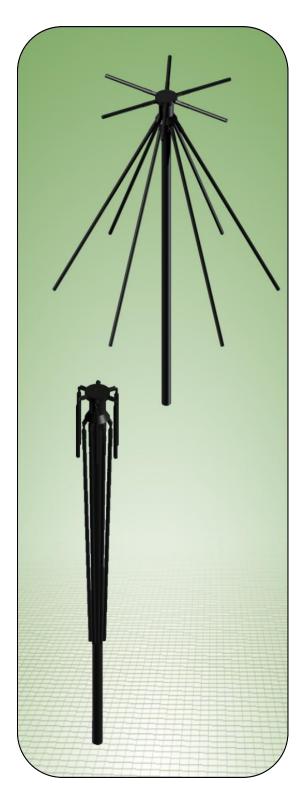
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Tactical Discone Antenna



The TDDC100X5 has omnidirectional coverage throughout the entire frequency spectrum of 100-512 MHz. It is the ideal choice for fixed and transportable base station operations.

- Uniform 360 Degrees Azimuth Coverage
- •0 to 90 Degree Vertical Coverage
- Vertical Polarization
- Low VSWR
- •20 Years of Field Proven Reliability

This antenna is an ideal choice for broadband:

- Base Station Communication
- Ship-to-Shore Communication
- Surface-to-Air Communication



Tactical Discone Antenna

Specifications

ELECTRICAL:

Frequency Range: 100-512 MHz

Gain: $0.0 \sim 2.5 \text{ dBi}$

VSWR: < 1.75:1 Typical

2.25:1 Maximum

Input Impedance: 50 Ω Nominal

Power: 250 Watts

Polarization: Omnidirectional

Radiation Pattern: Azimuth: 360°

Elevation: 90°

Input Connector: Type N Female

MECHANICAL:

Overall Height: 54 in. (1.37 m)

Cone Diameter: 36 in. (0.91 m)

Number Of Elements: 6 Cone & 6 Disc

Maximum Wind Load: 115 mph (185 km/h)

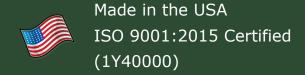
Net Weight: 11 lb. (4.98 kg)

Color: Black/Green/Tan/Grey

Mounting: UM003 Mounting Bracket

(Sold Separately)

^{**}Specifications are subject to change without prior notice.



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The DC113X4 has omnidirectional coverage throughout the entire frequency spectrum of 113-420 MHz.

It is the ideal choice for fixed and transportable base station operations. It has been used extensively for more than 20 years by the U.S. Federal Aviation Administration, U.S. Armed Forces, and other government and commercial organizations world wide.

- Uniform 360 Degrees Azimuth Coverage
- 0 to 90 Degree Vertical Coverage
- Vertical Polarization.
- Low VSWR.
- •20 Years of Field Proven Reliability

This antenna is an ideal choice for broadband:

- Base Station Communication
- Ship-to-Shore Communication
- Surface-to-Air Communication

UM003 Mounting Bracket sold separately.



Specifications

ELECTRICAL:

Frequency Range: 113-420 MHz

Gain: $0.0 \sim 2.5 \text{ dBi}$

VSWR: < 1.5:1 Typical

2.5:1 Maximum

Input Impedance: 50 Ω Nominal

Power: 1000 Watts PEP and AVE

Polarization: Vertical

Radiation Pattern: Azimuth: 360°

Elevation: 90°

Input Connector: Type N Female

MECHANICAL:

Overall Height: 54 in. (1.37 m)

Cone Diameter: 36 in. (.91 m)

Number Of Elements: 6 Cone & 6 Disc

Maximum Wind Load: 115 mph (185 km/h)

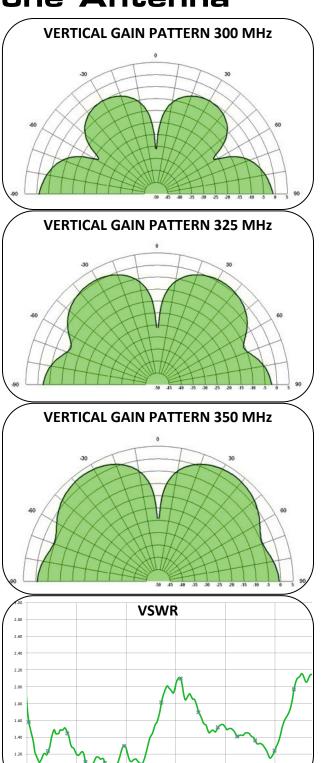
80 mph (128 km/h) with 1/2" Radial Ice

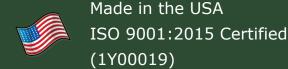
Net Weight: 7 lb. (3.18 kg)

Color: Black/Green/Tan/Grey

Mounting: UM003 Mounting Bracket

(Sold Separately)





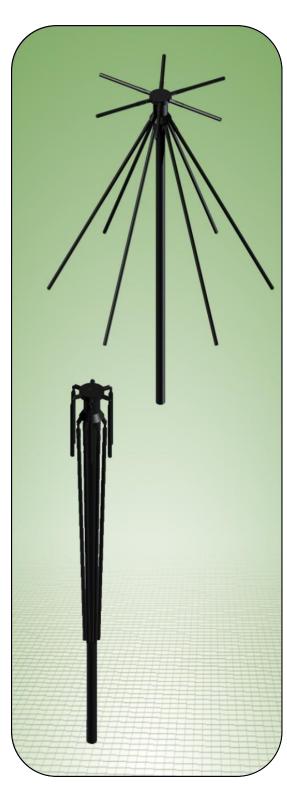
P.O. Box 909, Palmetto, Florida 34220-0909 Tel: 941-723-2833 • Fax: 941-723-1628 www.hascall-denke.com

^{**}All information on this product and the product itself is the property of and is proprietary to Hascall-Denke.

^{**}Specifications are subject to change without prior notice.



Tactical Discone Antenna



The TDDC113X4 has omnidirectional coverage throughout the entire frequency spectrum of 113-420 MHz. It is the ideal choice for fixed and transportable base station operations.

This tactical version of our legacy DC113X4 Discone Antenna has been used extensively for more than 20 years by the U.S. Federal Aviation Administration, U.S. Armed Forces and other governmental and commercial organizations around the world.

- Uniform 360 Degrees Azimuth Coverage
- •0 to 90 Degree Vertical Coverage
- Vertical Polarization
- Low VSWR
- •20 Years of Field Proven Reliability

This antenna is an ideal choice for broadband:

- Base Station Communication
- Ship-to-Shore Communication
- Surface-to-Air Communication

UM003 Mounting Bracket sold separately.



Tactical Discone Antenna

Specifications

ELECTRICAL:

Frequency Range: 113-420 MHz

Gain: $0.0 \sim 2.5 \text{ dBi}$

VSWR: < 1.75:1 Typical

2.25:1 Maximum

Input Impedance: 50 Ω Nominal

Power: 250 Watts

Polarization: Omnidirectional

Radiation Pattern: Azimuth: 360°

Elevation: 90°

Input Connector: Type N Female

MECHANICAL:

Overall Height: 54 in. (1.37 m)

Cone Diameter: 36 in. (0.91 m)

Number Of Elements: 6 Cone & 6 Disc

Maximum Wind Load: 115 mph (185 km/h)

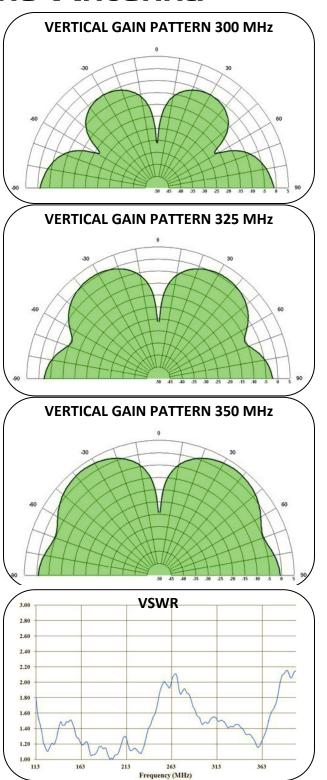
Net Weight: 9 lb. (4.08 kg)

Color: Black/Green/Tan/Grey

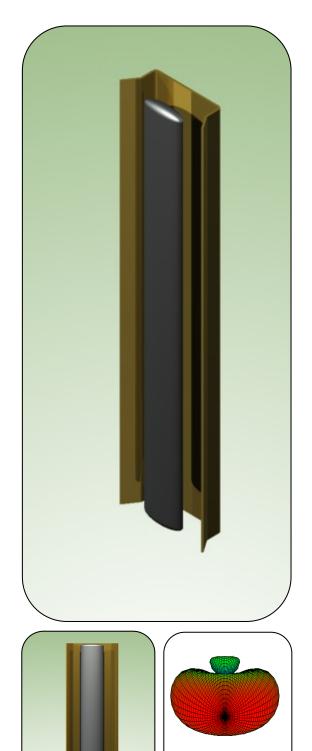
Mounting: UM003 Mounting Bracket

^{**}All information on this product and the product itself is the property of and is proprietary to Hascall-Denke.

**Specifications are subject to change without prior notice.







The FXSP806-960-12 sector panel antenna is designed to be used in military, commercial, and other applications where reliability is needed most. This antenna works with all radios within the 806-960 MHz band.

The antenna is designed to provide maximum Data, Video & Voice performance in a wide range of applications.

This antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance.

Robust and tough, this antenna is housed in a thick UV stable radome and is constructed from corrosion resistant materials for reliability in the harshest environments.

- User Friendly and Easy to Install
- 180° Azimuth Coverage
- Ideal Pattern/Beam Width and Side Lobe Control
- Designed to Reduce BER (Bit Error Rate)
- Mechanically Robust for Extreme Environments
- Plug & Play Design



Specifications

ELECTRICAL:

Frequency Range: 806-960 MHz

Gain: 12 dBi +/-.5

VSWR: 2.0:1 Typical

Input Impedance: 50 Ω Nominal

Power: 60 Watts Peak

Polarization: Vertical

Radiation Pattern: Azimuth: 360°

Elevation: 15°

Input Connector: Type N Female

MECHANICAL:

Overall Height: L 46 in. (1.17 m)

W 6 in. (152 mm) **D** 3.5 in. (89 mm)

Maximum Wind Load: 150 mph (240 km/h)

Net Weight: 4 lb. (1.9 kg)

Operational Temps: -40° to +185°F

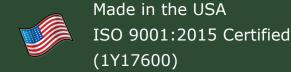
 $(-40^{\circ} \text{ to } +85^{\circ}\text{C})$

Color: Black/Green/Tan/Grey

Mounting: Stainless Steel (Pipe/Wall/Mast)

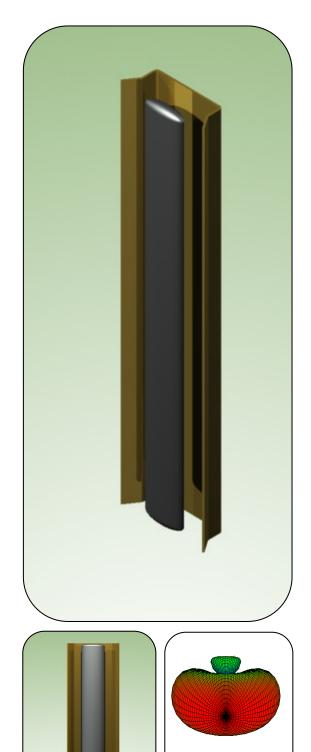
(up to 2" (50.8 mm) Dia. Mast-U-Bolt Type)

^{**}Specifications are subject to change without prior notice.



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The FXSP1.8-2.1-12 sector panel antenna is designed to be used in military, commercial, and other applications where reliability is needed most. This antenna works with all radios within the 1800-2100 MHz band.

The antenna is designed to provide maximum Data, Video & Voice for cellular performance in a wide range of applications.

This antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance.

Robust and tough, this antenna is housed in a thick UV stable radome and is constructed from corrosion resistant materials for reliability in the harshest environments.

- User Friendly and Easy to Install
- 180° Azimuth Coverage
- Ideal Pattern/Beam Width and Side Lobe Control
- Designed to Reduce BER (Bit Error Rate)
- Mechanically Robust for Extreme Environments
- Plug & Play Design



Specifications

ELECTRICAL:

Frequency Range: 1800-2100 MHz

Gain: 12 dBi +/-.5

VSWR: 2:1 Typical

Input Impedance: 50 Ω Nominal

Power: 60 Watts Peak

Polarization: Vertical

Radiation Pattern: Azimuth: 360°

Elevation: 15°

Input Connector: Type N Female

MECHANICAL:

Overall Height: L 46 in. (1.17 m)

W 6 in. (152 mm) **D** 3.5 in. (89 mm)

Maximum Wind Load: 150 mph (240 km/h)

Net Weight: 4 lb. (1.9 kg)

Operational Temps: -40° to +185°F

 $(-40^{\circ} \text{ to } +85^{\circ}\text{C})$

Color: Black/Green/Tan/Grey

Mounting: Stainless Steel (Pipe/Wall/Mast)

(up to 2" (50.8 mm) Dia. Mast-U-Bolt Type)

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^{**}Specifications are subject to change without prior notice.



Vertical & Horizontal Polarized Panel



The FXSP4.4-6.0-14-D features high gain, true dual polarization and wideband capabilities for superior performance and maximum reliability. The antenna can be easily installed for both indoor and outdoor applications.

The FXSP4.4-6.0-14-D is designed to support extreme high volume data rates, equal bit data streams and low BER. The antenna is supplied with two separate inputs, and housed in a UV stable polycarbonate radome and constructed with corrosion resistant materials for reliability in the most extreme environments.

Featuring a frequency range of 4400 to 5875 MHz, the FXFP4.4-6.0-14-D bridges the gap between the Military, Homeland Security and commercial markets and combines coverage of the Uni-I and Uni-II bands into a single antenna. This antenna also provides excellent performance and the capability for equal bit data streams with wireless systems and high volume networks where superior coverage and interoperability are required.

- Point-to-Point
- Reduces Latency
- Higher Spectral Efficiency
- Backhaul & Network Bridge
- Reduce BER (Bit Error Rate)
- Robust & Tough Low Profile



Vertical & Horizontal Polarized Panel Specifications

ELECTRICAL:

Frequency Range: 4400-5875 MHz

Gain: 14 dBi +/- .5

VSWR: < 2.0:1 Typical

Isolation: 32-40 dB

Input Impedance: 50 Ω Nominal

Power: 30 Watts max

Polarization: Vertical and Horizontal

Radiation Pattern: Azimuth: 90°

Elevation: 16°

Input Connector: Type N Female (2)

MECHANICAL:

Radome: Polycarbonate

Backplane: T6 Aluminum

Mechanical Tilt: +15/-25

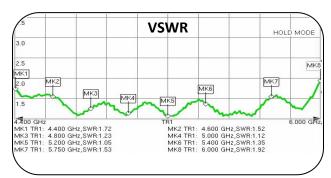
Wind Survivability: 150 MPH

Humidity: 100% Condensing

Universal Mounting: Pipe (1.5" - 2")

Wall (bracket included)
Stainless Steel Bracket &

U-Bolts



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Vertical & Horizontal Polarized Panel





The FXSP4.4-6.0-16-D features high gain, true dual polarization and wideband capabilities for superior performance and maximum reliability. The antenna can be easily installed for both indoor and outdoor applications.

The FXSP4.4-6.0-16-D is designed to support extreme high volume data rates, equal bit data streams and low BER. The antenna is supplied with two separate inputs, and housed in a UV stable polycarbonate radome and constructed with corrosion resistant materials for reliability in the most extreme environments.

Featuring a frequency range of 4400 to 6000 MHz, the FXSP4.4-6.0-16-D bridges the gap between the Military, Homeland Security and commercial markets and combines coverage of the Uni-I and Uni-II bands into a single antenna. This antenna also provides excellent performance and the capability for equal bit data streams with wireless systems and high volume networks where superior coverage and interoperability are required.

- Point-to-Point
- Reduces Latency
- Higher Spectral Efficiency
- Backhaul & Network Bridge
- Reduce BER (Bit Error Rate)
- Robust & Tough Low Profile



Vertical & Horizontal Polarized Panel

Specifications

ELECTRICAL:

Frequency Range: 4400-6000 MHz

Gain: 16.0 dBi +/- .5

VSWR: < 2.0:1 Typical

Isolation: 32-40 dB

Input Impedance: 50 Ω Nominal

Power: 30 Watts max

Polarization: Vertical and Horizontal

Radiation Pattern: Azimuth: 37°

Elevation: 25°

Input Connector: Type N Female (2)

MECHANICAL:

Radome: Polycarbonate

Backplane: T6 Aluminum

Mechanical Tilt: +15/-25

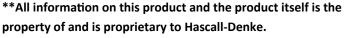
Wind Survivability: 150 MPH

Humidity: 100% Condensing

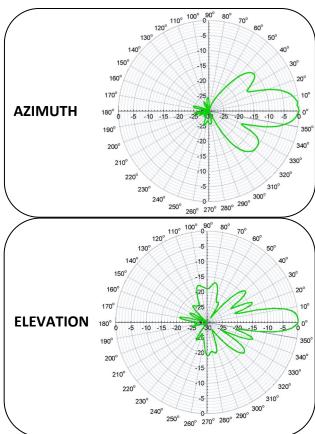
Universal Mounting: Pipe (1.5" - 2")

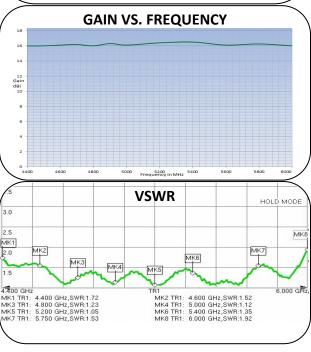
Wall (bracket included)
Stainless Steel Bracket &

U-Bolts



^{**}Specifications are subject to change without prior notice.







Adjustable Sector Panel Antenna



The FXSP5.0-6.0 heavy duty multiband antenna is designed to be used in military, commercial, and other applications where reliability is needed most. This antenna works with all radios within the 5000-6000 MHz band.

The antenna is designed to provide maximum Data, Video & Voice performance whether used in a MIMO or Single configuration.

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance. In addition this antenna comes supplied with a set of beam forming directors which allow the user to adjust for optimal coverage.

Robust and tough, this antenna is housed in a thick UV stable radome and is constructed from corrosion resistant materials for reliability in the harshest environments.

- Cisco Radio Ready
- Tower Space Reduction
- Diversity, MIMO, or separate radio ready
- Superior F to B
- Designed to Reduce BER (Bit Error Rate)
- Ideal Pattern/Beam Width and Side Lobe Control
- Plug & Play Design
- Factory set for 90°



Adjustable Sector Panel Antenna

Specifications

ELECTRICAL:

Frequency Range: 5000-6000 MHz

Gain: $15 \text{ dBi +/- } .5 @ 60^{\circ}$

14 dBi +/- .5 @ 90° 12 dBi +/- .5 @ 120°

VSWR: < 2:1 Typical

Input Impedance: 50 Ω Nominal

Power: 30 Watts

Polarization: Vertical

Radiation Pattern: Azimuth: 60°, 90°, or 120°

Elevation: 17°

Input Connector: Type N Female

MECHANICAL:

Overall Height: 28-34 in. (0.71 - 0.86 m)

Maximum Wind Load: 150 mph (241 km/h)

Net Weight: 4 lb. (1.9 kg)

Operational Temps: -40° to +185°F

 $(-40^{\circ} \text{ to } +85^{\circ}\text{C})$

Color: Black/Green/Tan/Grey

Mounting: Stainless Steel (Pipe/Wall/Mast)

up to 2" (50.8 mm) Dia. Mast-U-Bolt

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^{**}Specifications are subject to change without prior notice.



Dual Polarization Sector Antenna



The FXSP5.0-6.0-D-HV is a dual input, dual polarization, adjustable sector panel antenna that is designed to be used with military, commercial, and other communication platforms where reliability is needed most. The antenna works with all radios within the 5000-6000 MHz band.

The antenna is designed to provide maximum Data, Video & Voice performance whether used in a MIMO or Diversity Polarization configuration.

This antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance. In addition this antenna comes supplied with an independent set of beam forming directors which allows the user to adjust for optimal coverage separately for both the Horizontal and Vertically Polarized sections.

Robust and tough, this antenna is housed in a thick UV stable radome and is constructed from corrosion resistant materials for reliability in the harshest environments.

- Dual Polarization
- Independent beam width settings 60°, 90°, and 120° for Azimuth coverage
- Tower Space Reduction
- Designed for ultra high speed Data Rates
- Plug & Play Design
- Factory set for 90°



Dual Polarization Sector Antenna

Specifications

ELECTRICAL:

Frequency Range: 5000-6000 MHz

Gain: 14 dBi +/-.5 @ 60°

13 dBi +/-.5 @ 90° 12 dBi +/-.5 @ 120°

VSWR: < 2:1 Operational

Input Impedance: 50 Ω Nominal

Power: 25 Watts Max

Polarization: Horizontal & Vertical

Radiation Pattern: Azimuth: 60° , 90° or 120°

Elevation: 20°

Input Connector: (2) Type N Female

MECHANICAL:

Overall Height: 24 in. (.61 m)

Maximum Wind Load: 125 mph (201 km/h)

Net Weight: 2 lb. (.91 kg) Including Mount

Color: Black/Green/Tan/Grey

Mounting: Mast 1.25 - 2.00 in. OD (32 - 51 mm)

Adjustable Tilt +/- 25°

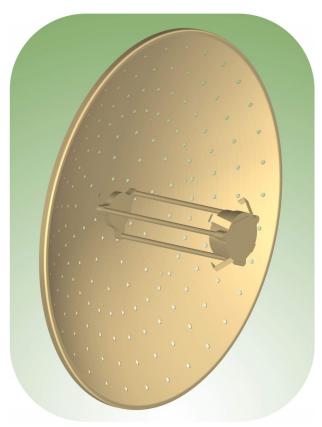


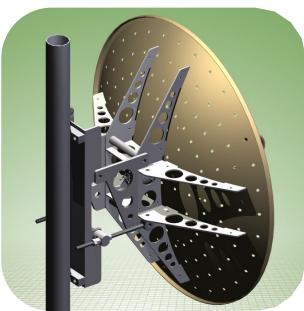


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^{**}Specifications are subject to change without prior notice.







Fixed Mount

Made in the USA

ISO 9001:2015 Certified

This antenna is designed to be used in military, industrial, commercial, and other applications where reliability is needed most. Broadband or individual frequencies operating in the 1350-2700 MHz band.

The antenna, provided with a unique set of radiating elements, allows for maximum reliability and superior performance over traditional single input antennas. Dual polarization reduces the impact from multi-path attenuation and improves quality of signals received

"Dual Polarized", Optimized for high density, High speed, and Streaming Media. Increase your spectral efficiency thru polarized multiplexing while lowering channel correlation.

Robust and tough, built to military standards and now offered to the industrial-commercial industries. The antenna is constructed from corrosion resistant materials for high reliability in the harshest environments.

- Optimized for High Density Data Flow
- Reduction of Multi-Path Attenuation
- Backhaul, Point-to-Point, Spot Illumination
- Greater Spectral Efficiency
- Reduction in tower loading
- Tactical or Fixed Mount Options



Specifications

ELECTRICAL:

Frequency Range: 1350-2700 MHz

Gain: 20 ~ 26 dBi +/- .5

VSWR: 2.0:1 Typical

Input Impedance: 50 Ω Nominal

Power: 30 Watts

Polarization: Dual Polarization

Port-to-Port Isolation: 32 ~ 45 dB Typical

Radiation Pattern: Azimuth: 14° (Mid Band)

Elevation: 14° (Mid Band)

Input Connector: (2) Type N Female

MECHANICAL:

Depth: 25 in. (635 mm)

Diameter: 36 in. (915 mm)

Net Weight: 25 lb. (11.5 Kg) Tactical Mount

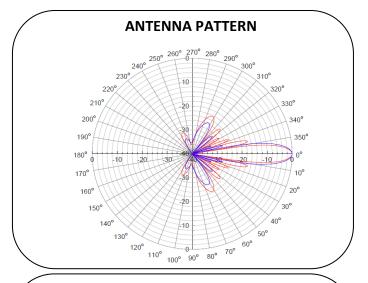
40 lb. (18.2 Kg) Fixed Mount

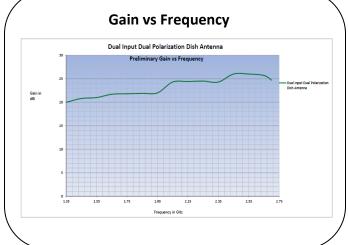
Operational Temps: -40° to $+185^{\circ}$ F

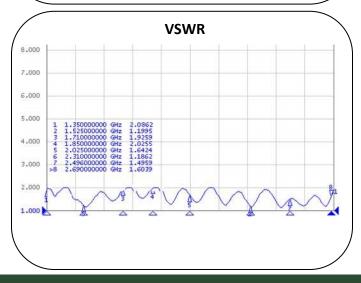
 $(-40^{\circ} \text{ to } +85^{\circ}\text{C})$

Color: Black/Green/Tan/Grey/White

Mounting: Pipe Mast, Wall, or Special



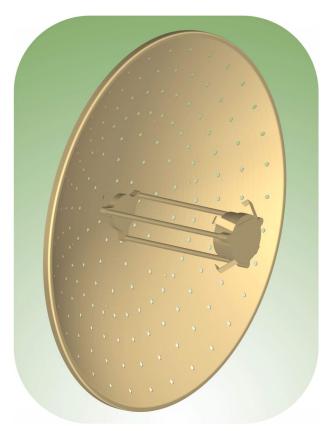




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Fixed Mount

This antenna is designed to be used in military, industrial, commercial, and other applications where reliability is needed most. Broadband or individual frequencies operating in the 4400-5000 MHz band.

The antenna, provided with a unique set of radiating elements, allows for maximum reliability and superior performance over traditional single input antennas. Dual polarization reduces the impact from multi-path attenuation and improves quality of signals received

"Dual Polarized", Optimized for high density, High speed, and Streaming Media. Increase your spectral efficiency thru polarized multiplexing while lowering channel correlation.

Robust and tough, built to military standards and now offered to the industrial-commercial industries. The antenna is constructed from corrosion resistant materials for high reliability in the harshest environments.

- Optimized for High Density Data Flow
- Reduction of Multi-Path Attenuation
- Backhaul, Point-to-Point, Spot Illumination
- Greater Spectral Efficiency
- Reduction in tower loading
- Tactical or Fixed Mount Options

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(1Y34550) www.hascall-denke.com



Specifications

ELECTRICAL:

Frequency Range: 4400-5000 MHz

Gain: 29 ~ 30 dBi +/- .5

VSWR: 2.0:1 Typical

Input Impedance: 50 Ω Nominal

Power: 30 Watts

Polarization: Dual Polarization

Port-to-Port Isolation: 32 ~ 45 dB Typical

Radiation Pattern: Azimuth: 5° (Mid Band)

Elevation: 5° (Mid Band)

Input Connector: (2) Type N Female

MECHANICAL:

Depth: 23 in. (.59 mm)

Diameter: 32 in. (.82 m)

Net Weight: 25 lb. (11.5 Kg) Tactical Mount

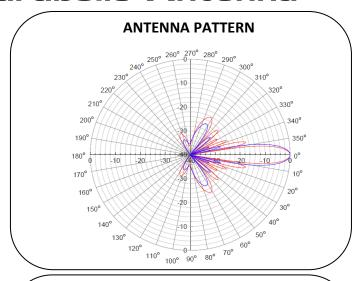
40 lb. (18.2 Kg) Fixed Mount

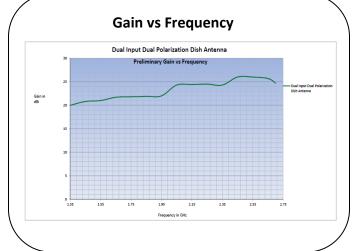
Operational Temps: -40° to $+185^{\circ}$ F

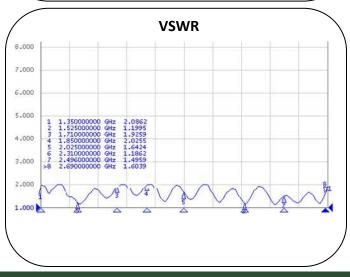
 $(-40^{\circ} \text{ to } +85^{\circ}\text{C})$

Color: Black/Green/Tan/Grey/White

Mounting: Pipe Mast, Wall, or Special







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Conical Horn Pencil Beam Antenna





The TDCH2.4-2.5-20 antenna is designed to be used in military, commercial, and other applications where reliability is needed most. This antenna works with all radios within the 2.4-2.5 GHz bands.

The antenna is constructed of ultra light weight components and leading technology essential for maximum reliability and superior performance. Ideal for spot beam applications, targeting applications, jamming, broadband high speed platforms, and backhaul data links.

The antenna is constructed from corrosion resistant materials for reliability in the harshest environments.

- Pencil Beam Highly Directional
- Front to Back -60dB
- High Power
- Low VSWR
- Jamming, Backhaul, Spot Illumination
- High Strength Ultra Light Composite
- USA Made



Conical Horn Pencil Beam Antenna

Specifications

ELECTRICAL:

Frequency Range: 2400-2500 MHz

Gain: 20 dBi +/- .5

VSWR: 2:1 Maximum

Input Impedance: 50 Ω Nominal

Power: .4 kW

Polarization: Horizontal or Vertical

Radiation Pattern: Azimuth: 20°

Elevation:20°

Input Connector: N-Female

MECHANICAL:

Overall Length: 35 in. (890 mm)

Width: 20.5 in. (521mm)

Net Weight: 5.0 lb. (2.3 kg)

Operational Temps: $+14^{\circ}$ to $+131^{\circ}$ F (-10° to $+55^{\circ}$ C)

Storage Temps: -4° to $+160^{\circ}$ F (-20° to $+71^{\circ}$ C)

Color: Green, Tan, Black, Other

Mounting: Pipe-Wall- NATO, Gimbal

Compliance: Built to meet MIL-STD—810F

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^{**}Specifications are subject to change without prior notice.





The FXRH2.4-6.0-20 antenna is designed to be used in military, commercial, and other applications where reliability is needed most. This antenna works with all radios within the 2400-6000 MHz bands.

The antenna is provided with state-of-the-art technology essential for maximum reliability and superior performance. Ideal for spot beam applications, targeting applications, jamming, broadband high speed platforms, and proximity backhaul data links.

The antenna is made from high strength aluminum and is constructed from corrosion resistant materials for reliability in the harshest environments.

- Broadband 2400-6000 MHz
- Focused beam
- High Power
- Low VSWR
- Jamming, Backhaul, Spot Illumination
- High Strength Aluminum
- USA Made



Specifications

ELECTRICAL:

Frequency Range: 2400-6000 MHz

Gain: 20 dBi +/- .5

VSWR: 2:1 Maximum

Input Impedance: 50 Ω Nominal

Power: .4 kW

Polarization: Horizontal or Vertical

Radiation Pattern: Azimuth: 20°

Elevation:20°

Input Connector: N-Female

MECHANICAL:

Overall Length: 38 in. (966 mm)

Height: 19 in. (483 mm) **Width:** 15.5 in. (393 mm)

Net Weight: 5.0 lb. (2.3 kg)

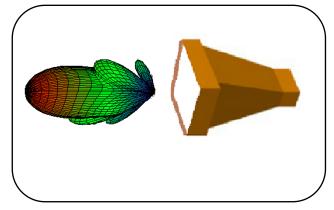
Operational Temps: $+14^{\circ}$ to $+131^{\circ}$ F (-10° to $+55^{\circ}$ C)

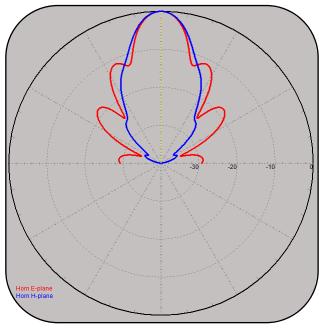
Storage Temps: -4° to $+160^{\circ}$ F (-20° to $+71^{\circ}$ C)

Color: Green, Tan, Black, Other

Mounting: Pipe–Wall- NATO Base optional

Compliance: Built to meet MIL-STD—810F





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The FXRH2.5-6.0-14 antenna is designed to be used in military, commercial, and other applications where reliability is needed most. This antenna works with all radios within the 2.5-6 GHz bands.

The antenna is provided with state-of-the-art technology essential for maximum reliability and superior performance. Ideal for spot beam applications, targeting applications, jamming, broadband high speed platforms, and proximity backhaul data links.

The antenna is made from high strength aluminum and is constructed from corrosion resistant materials for reliability in the harshest environments.

- Broadband 2.5– 6 GHz
- Focused beam
- High Power
- Low VSWR
- Jamming, Backhaul, Spot Illumination
- High Strength Aluminum
- USA Made



Specifications

ELECTRICAL:

Frequency Range: 2.5-6GHz

Gain: 14.5 dBi +/- .5 Minimum for all

Freq. Range

VSWR: 2.75:1

Input Impedance: 50 Ω Nominal

Power: .4 kW

Polarization: Horizontal or Vertical

Radiation Pattern: @ 2.5GHz Azimuth: 31°

Elevation: 28°

@ 6.0GHz Azimuth: 31°

Elevation: 31°

Input Connector: N-Female

MECHANICAL:

Overall Length: 15 in. (381 mm)

Height: 10 in. (254 mm) **Width:** 13 in. (330 mm)

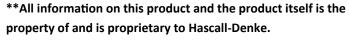
Net Weight: 4.0 lb. (1.8 kg)

Operational Temps: $+14^{\circ}$ to $+131^{\circ}$ F (-10° to $+55^{\circ}$ C)

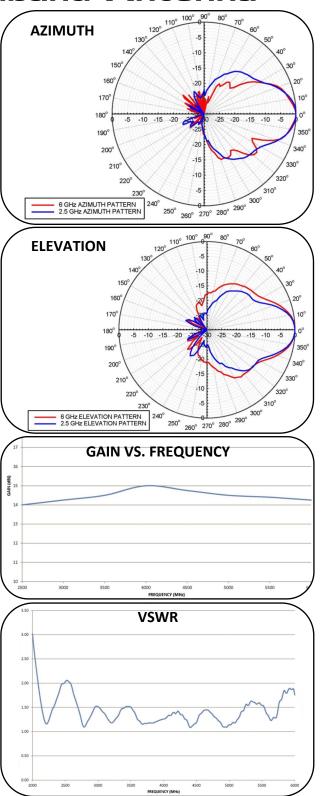
Storage Temps: -4° to $+160^{\circ}F$ (-20° to $+71^{\circ}C$)

Color: Green

Compliance: Built to meet MIL-STD—810F



^{**}Specifications are subject to change without prior notice.





Broadband Antenna



The FXDP30X33 broadband antenna designed to be used with military, private, or commercial applications where reliability is needed most. This antenna works with all radios within the 30-1000 MHz band.

Robust and tough, this antenna is housed in a thick fiberglass radome double reinforced at the base and is constructed from corrosion resistant materials for reliability in the harshest environments.

- Optimum Performance with Minimum Radiator Length
- Robust Construction



Broadband Antenna

Specifications

ELECTRICAL:

Frequency Range: 30-1000 MHz

Gain: -15 dBi @ 30 MHz

-2 dBi @ 88 MHz 5 dBi @ 116 MHz 3 dBi @ 512 MHz

VSWR: 3.5:1 Max @ 30-90 MHz

2.5:1 Max @ 155-1000 MHz

Input Impedance: 50 Ω Nominal

Power: 50 Watts

Polarization: Vertical

Radiation Pattern: Azimuth: 360°

Elevation: 90°

Input Connector: Type N Female

MECHANICAL:

Overall Height: 40 in. (1.02 m)

Net Weight: 8 lb. (3.63 kg)

Color: Black/Green/Tan/Grey

Mounting: NATO Standard Four .5" (12.7 mm)

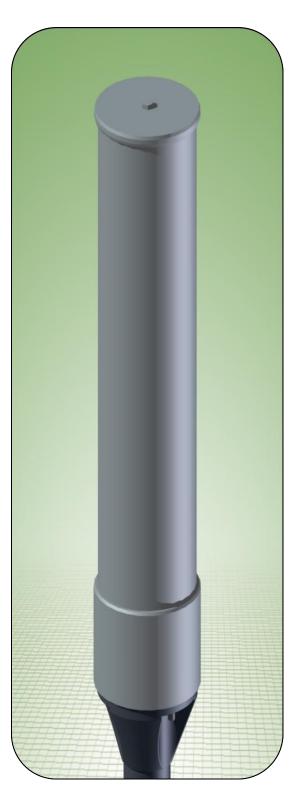
Holes, equally spaced on a 4.5"

(114.3 mm) Dia. BHC

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^{**}Specifications are subject to change without prior notice.





The FXDP100-156 is designed for excellent omnidirectional coverage throughout the VHF band of 100-156 MHz. The antenna requires minimum mounting space for where mounting "real estate" is limited.

This antenna is very popular for aviation control tower operations.

- Low VSWR
- Robust Construction



Specifications

ELECTRICAL:

Frequency Range: 100-156 MHz

VSWR: 1.5:1 Nominal

Input Impedance: 50 Ω Nominal

Polarization: Omnidirectional

Radiation Pattern: Azimuth: 360°

Elevation: 90°

Input Connector: Type N Female

MECHANICAL:

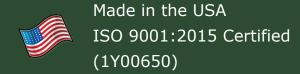
Overall Height: 51 in. (1.30 m)

Net Weight: 10.5 lb. (4.76 kg)

Color: Black/Green/Tan/Grey

Mounting: Three 5/16-18 UNC Threaded Bolts

^{**}Specifications are subject to change without prior notice.

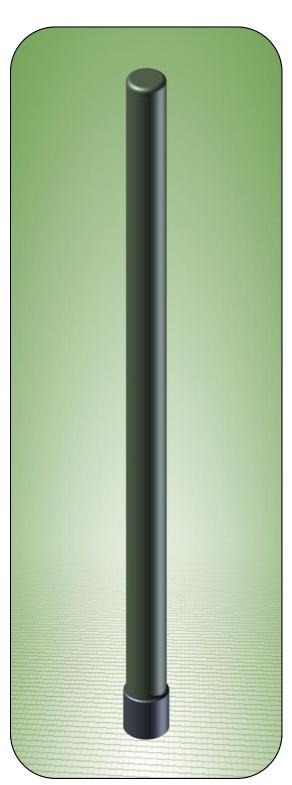


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100-400 MHz FXMP100X4 DBD002 NSN: 5985-01-446-9223

Base Station Dual Band Antenna



The FXMP100X4 was designed for FAA installations using a 1-1/2" NPT sized pipe thread coupling.

This antenna is also used in heavy ice load installations on mountain tops.

100-400 MHz FXMP100X4 DBD002 NSN: 5985-01-446-9223

Base Station Dual Band Antenna

Specifications

ELECTRICAL:

Frequency Range: 100-400 MHz

Gain: 2.5 dBi Nominal

VSWR: 2.5:1 Nominal

Input Impedance: 50 Ω Nominal

Power: 50 Watts CW and PEP

Polarization: Vertical

Radiation Pattern: Azimuth: 360°

Elevation: 90°

Input Connector: Type N Female

MECHANICAL:

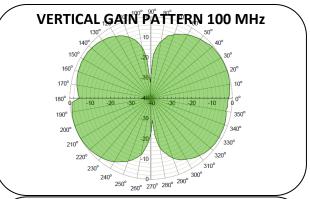
Overall Height: 37 in. (0.94 m)

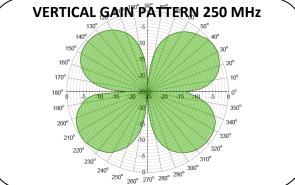
Net Weight: 4 lb. (1.81 kg)

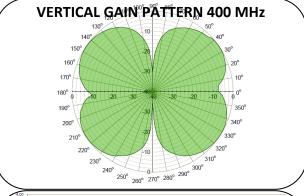
Color: Black/Green/Tan/Grey

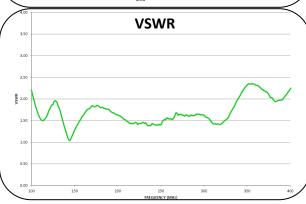
Mounting: 1-1/2" NPT Male thread at base

of antenna and is supplied with a coupling mast adapter that is mounted using a female thread.





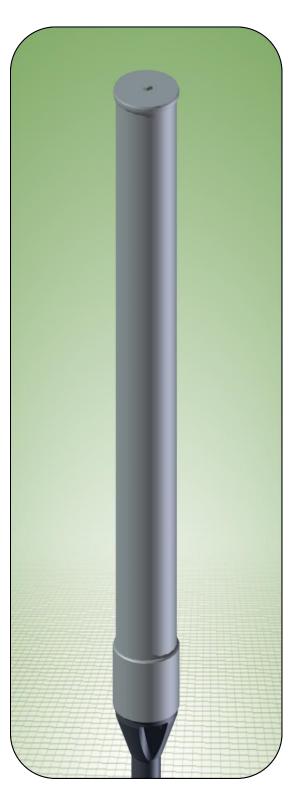




^{**}All information on this product and the product itself is the property of and is proprietary to Hascall-Denke.

^{**}Specifications are subject to change without prior notice.





Construction Details:

The antenna consists of an aluminum coaxial dipole covered by glass epoxy.

Within each semi-dipole there is a coaxial line shorted at the end. The coaxial line of the upper semi-dipoles produce an appropriate impedance to provide broadband operation of the entire antenna. The coaxial line of the lower semi-dipoles generate high impedance which attenuates to negligible values the currents that inevitably flow within the support pole.

These supports further provide a balancing that ensures that the characteristics of impedance of the two coaxial lines remain effectively constant even in the presence of shack, vibration, etc.

Installation:

An optional mounting bracket is available with a mounting flange of 4.5 in. (114.3 mm) equipped with protection for the connector against the elements.



Specifications

ELECTRICAL:

Frequency Range: 100-400 MHz

Gain: 2.0 dBi Ref. to Isotropic Radiator

VSWR: 1.5:1 Nominal

Input Impedance: 50 Ω Nominal

Power: 250 Watts w/ Type N Connector

600 Watts w/ Type 7/16 Connector

(Optional)

Polarization: Vertical

Radiation Pattern: Azimuth: 360°

Elevation: 90°

Input Connector: Type N Female

Type 7/16 Female (Optional)

MECHANICAL:

Overall Height: 51 in. (1.30 m)

Radome Diameter: 4.5 in. (114.3 mm)

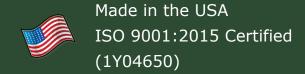
Net Weight: 10.5 lb. (4.76 kg)

Max Wind Load: 124 mph (200 km/h)

Color: Black/Green/Tan/Grey

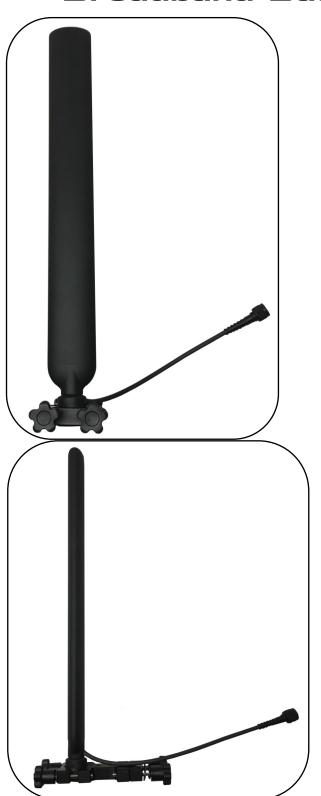
Mounting: Three 5/16-18 UNC Threaded Bolts

^{**}Specifications are subject to change without prior notice.



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The FXDP100X25 antenna is designed to be used with military, commercial and other applications where reliability is needed most. This antenna works with all radios within the 100-2500 MHz band.

Being ultra broadband and compact for its frequency of operation, this antenna is ideal for multi-frequency use from a single input.

This antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance.

Robust and tough, this antenna is housed in a thick fiberglass radome and is constructed from corrosion resistant materials for reliability in the harshest environments.



Specifications

ELECTRICAL:

Frequency Range: 100-2500 MHz

Gain: $-20 \sim 2 \text{ dBi +/- 1}$

VSWR: 2:1 Typical (Operational)

Input Impedance: 50 Ω Nominal

Power: 35 Watts*

Polarization: Vertical

Radiation Pattern: Azimuth: 360°

Elevation: 60-75°

Input Connector: Type N Female

(Other connectors available)

MECHANICAL:

Overall Height: 22 in. (0.56 m)

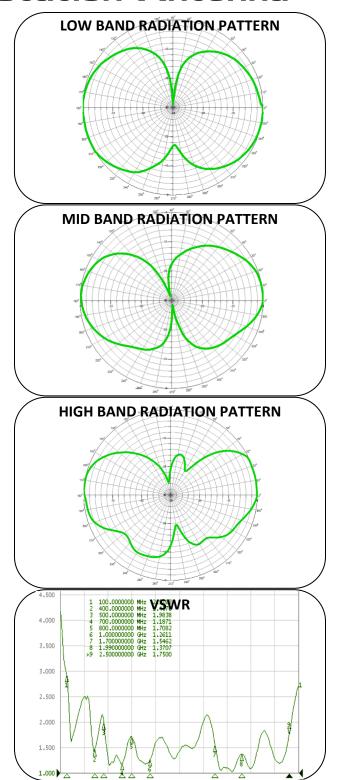
Antenna Length: 15 in. (0.38 m)

Radome Diameter: 2 in. (50.8 mm)

Net Weight: 1 lb. (0.45 kg)

Color: Black/Green/Tan/Grey

Mounting: Pole / Clamp



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^{**}Specifications are subject to change without prior notice.



^{*}Power higher than 35 Watts available upon request.





The FXDP150/450/816 tri-band antenna is designed to be used in commercial, military and other applications where reliability is needed most. This antenna works with all radios within the 136-174, 380-520, 762-960 MHz bands.

Being "ground independent", this antenna can be used on all types of vehicles, vessels or land based facilities (metal or non-metal) with no degradation in performance.

The radiator elements are designed for maximum durability and performance. The antenna radiator is sealed in a heavy duty fiberglass radome for mechanical stability and reliability in harsh environments.

- Tri-Band Performance in Single Antenna
- Ground Plane Independent
- Main Beam at Horizon
- Single Input
- Space Economy
- Simplified Installation

Made in the USA

(1Y33200)

ISO 9001:2015 Certified



Specifications

ELECTRICAL:

Frequency Range: 136-174 MHz

380-520 MHz 762-960 MHz

Gain: Unity ~ 2.0 dBi

VSWR: 2.5:1 Operational

< 3.0:1 Maximum

Input Impedance: 50 Ω Nominal

Power: 100 Watts

Polarization: Vertical

Radiation Pattern: Azimuth: 360°

Elevation: 72°

Input Connector: Type N Female Pigtail

MECHANICAL:

Overall Height: 47.25 in. (1.2 m) Based on 6 in Extension

Radome Diameter: 2 in. (51 mm)

Maximum Wind Load: 150 mph (241 kph)

Net Weight: 6.1 lb. (2.76 kg)

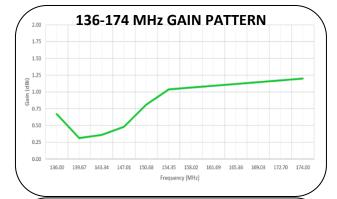
Operational Temps: -40° to +185°F

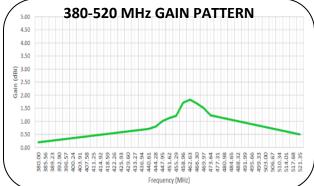
(-40° to +85°C)

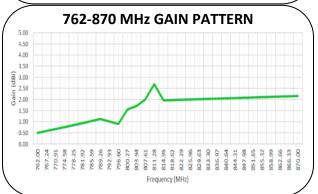
Color: Black/Green/Tan/Grey/White

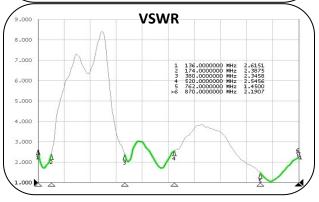
Environmental to Shipboard: Yes

Mounting: 1in. Diameter Tube 6" long



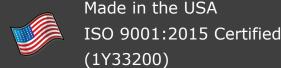




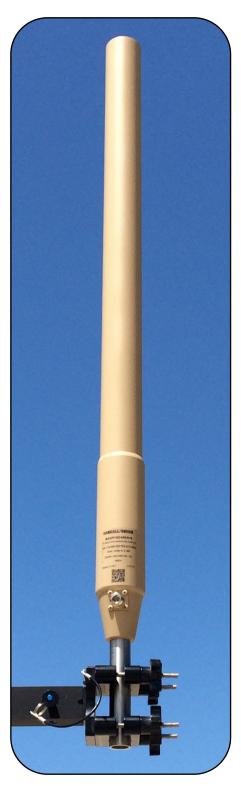


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^{**}Specifications are subject to change without prior notice.







The MADP150/450/816AB tri-band antenna is designed to be used in commercial, military, and other applications where reliability is needed most. This antenna works with all radios within the 136-174, 380-520, 762-960 MHz bands.

Being "ground independent", this antenna can be used on all types of vehicles or vessels (metal or non-metal) with no degradation in performance.

The radiator elements are designed for maximum durability and performance. The antenna radiator is sealed in a heavy duty fiberglass radome for mechanical stability and reliability in harsh environments.

- Tri-Band Performance in Single Antenna
- Ground Plane Independent
- Main Beam at Horizon
- Single Input
- Space Economy
- Simplified Installation



Specifications

ELECTRICAL:

Frequency Range: 136-174 MHz

380-520 MHz 762-960 MHz

Gain: Unity ~ 2.0 dBi

VSWR: 2.5:1 Operational

< 3.0:1 Maximum

Input Impedance: 50 Ω Nominal

Power: 100 Watts

Polarization: Vertical

Radiation Pattern: Azimuth: 360°

Elevation: 72°

Input Connector: Type N Female

MECHANICAL:

Overall Height: 45.25 in. With 4" extension (1.15 m)

Radome Diameter: 2 in. (51 mm)

Maximum Wind Load: 150 mph (241 kph)

Net Weight: 6.1 lb (2.76 kg)

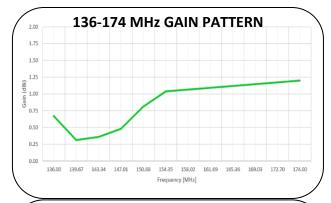
Operational Temps: -40° to +185°F

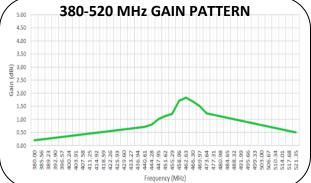
(-40° to +85°C)

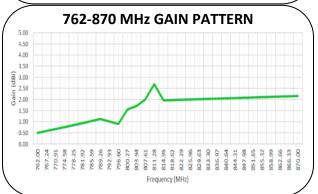
Color: Black/Green/Tan/Grey/White

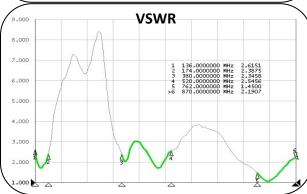
Environmental to Shipboard: Yes

Mounting: 1" Dia Tube (4" long)



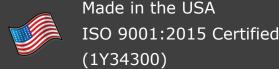




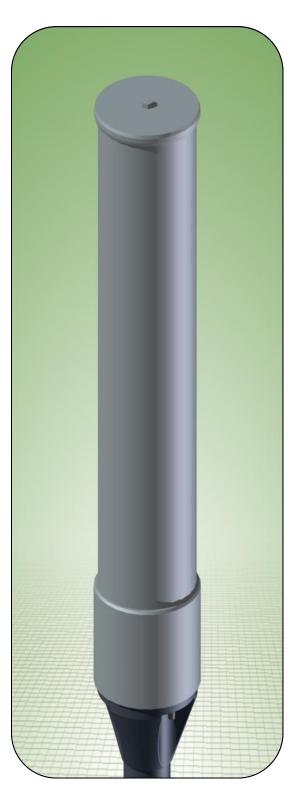


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^{**}Specifications are subject to change without prior notice.







The FXDP225X2 is designed for excellent omnidirectional coverage throughout the VHF band of 225-400 MHz. The antenna requires minimum mounting space for where mounting "real estate" is limited.

This antenna is very popular for aviation control tower operations.

- Low VSWR
- Robust Construction



Specifications

ELECTRICAL:

Frequency Range: 225-400 MHz

VSWR: 1.5:1 Nominal

Input Impedance: 50 Ω Nominal

Polarization: Omnidirectional

Radiation Pattern: Azimuth: 360°

Elevation: 90°

Input Connector: Type N Female

MECHANICAL:

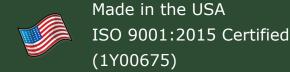
Overall Height: 29.5 in. (0.75 m)

Net Weight: 8 lb. (3.62 kg)

Color: Black/Green/Tan/Grey

Mounting: Three 5/16-18 UNC Threaded Bolts

^{**}Specifications are subject to change without prior notice.



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Tactical Dipole Antenna



The FXDP225X2AB tactical dipole antenna is designed to be mounted on poles and marine vehicles. It also works with all UHF hopping radios within the 225-450 MHz Band.

The radiator elements are made of brass tubing for maximum conductivity and sealed in a fiberglass radome for mechanical stability and reliability in extreme environments.

Being "ground independent", this antenna can be used on all types of structures (metal or non-metal) with no degradation in performance.

Robust and tough, this antenna is housed in a thick fiberglass radome double reinforced at the base and is constructed from corrosion resistant materials for reliability in the harshest environments.



UM004AB Mounting Bracket sold separately.



Tactical Dipole Antenna

Specifications

ELECTRICAL:

Frequency Range: 225-450 MHz

Gain: $0.0 \sim 2.0 \text{ dBi}$

VSWR: 3.5:1 Maximum

Input Impedance: 50 Ω Nominal

Power: 60 Watts

Polarization: Vertical

Radiation Pattern: Azimuth: 360°

Elevation: 90°

EMP Protection: Included

Input Connector: Type N Female

MECHANICAL:

Overall Height: 40 in. (1.02 m)

Net Weight: 4.5 lb. (2.04 kg)

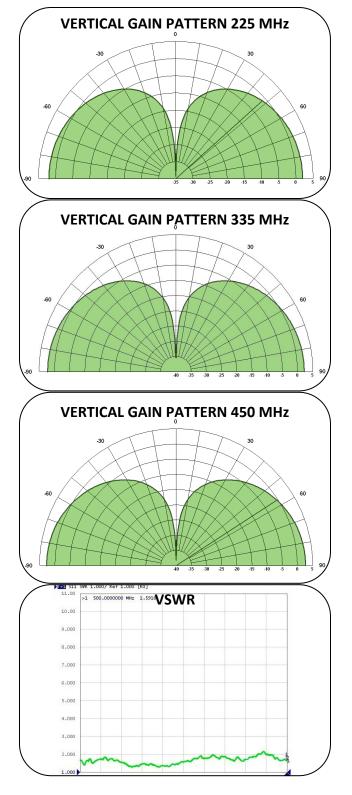
Operational Temps: -40° to +158°F

(-40° to +70°C)

Color: Black/Green/Tan/Grey

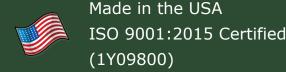
Mounting: UM004AB Mounting Bracket

(Sold Separately)



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^{**}Specifications are subject to change without prior notice.





Base Station Antenna



The FXDP700-960-3 antenna is designed to be used in military, commercial, and other applications where reliability is needed most. This antenna works with all radios within the 700-960 MHz band.

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance.

Robust and tough, this antenna is housed in a thick UV stable radome and is constructed from corrosion resistant materials for reliability in the harshest environments. In addition this antenna is built to meet MIL-STD-810F

- Low Profile
- Designed for Vest Compartments
- Low VSWR
- Build to meet MIL-STD-810F



Base Station Antenna

Specifications

ELECTRICAL:

Frequency Range: 700-960 MHz

Gain: 2.0 ~ 3.0dBi

VSWR: < 2.0:1 Typical

2.5:1 Maximum

Input Impedance: 50 Ω Nominal

Power: 25 Watts PEP

Polarization: Vertical

Radiation Pattern: Azimuth: 360°

Elevation: 63°

Input Connector: Type TNC Male

MECHANICAL:

Overall Height: 15in. (0.38 m)

Radome: 1.5 in. Oval (38 mm)

Net Weight: 6 oz. (0.17 Kg)

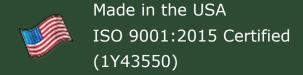
Operational Temps: -40° to $+158^{\circ}$ F $(-40^{\circ}$ to $+70^{\circ}$ C)

Color: Black/Green/Tan/Grey

Mounting: Type TNC Male

Compliance: Built to meet: MIL-STD-810F

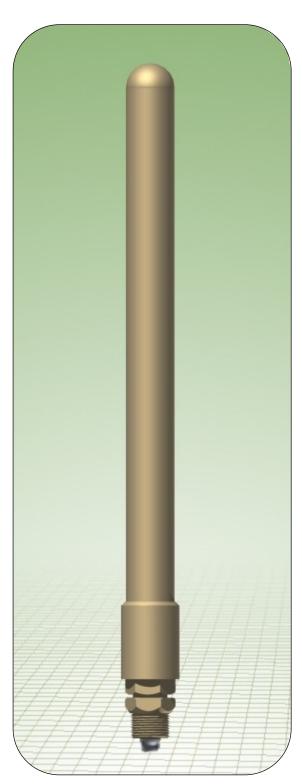
^{**}Specifications are subject to change without prior notice.



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Omnidirectional Antenna



Made in the USA

ISO 9001:2015 Certified

The FXDP800-860 antenna is designed to be used in military, commercial, and other vehicular applications where reliability is needed most. This antenna works with all radios within the 800-860 MHz band.

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance.

Being "ground independent", this antenna can be used on all types of vehicles (metal or non-metal) with no degradation in performance.

Robust and tough, this antenna is housed in a thick polycarbonate radome and is constructed from corrosion resistant materials for reliability in the harshest environments.



Omnidirectional Antenna

Specifications

ELECTRICAL:

Frequency Range: 800-860 MHz

1710-2100 MHz

Gain: $3 \sim 5 \text{ dBi +/- .5}$

VSWR: < 2:1 800-860 MHz

<3:1 1710-2100 MHz

Input Impedance: 50 Ω Nominal

Power: 100 Watts

Polarization: Vertical

Radiation Pattern: Azimuth: 360°

Elevation: $37 \sim 58^{\circ}$

Input Connector: User Defined

(Pigtail Optional)

MECHANICAL:

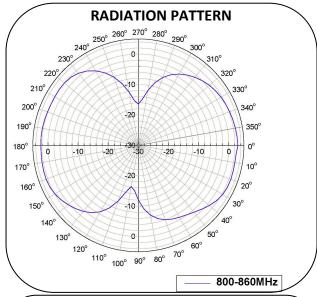
Overall Height: 19 in. (483mm)

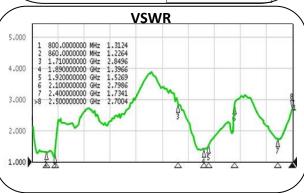
Radome Diameter: 1.5 in. \sim 1.75in. (38.1 mm \sim 44.5 mm)

Net Weight: 1 lb. (.45 kg)

Operational Temps: -40° to $+185^{\circ}$ F (-40° to $+85^{\circ}$ C)

Color: Black/Green/Tan/Grey





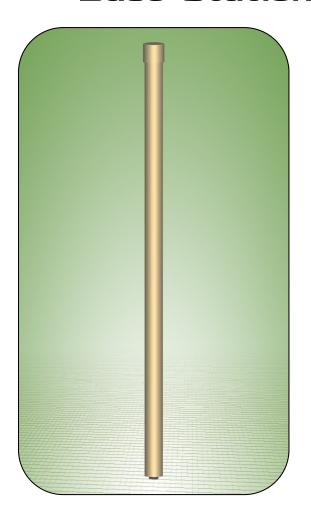
Made in the USA

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^{**}Specifications are subject to change without prior notice.



Base Station Dual Band Antenna



The FXCL920-1785 dual band antenna is designed to be used in military, commercial, and other applications where reliability is needed most. This antenna works with all radios within the 900-940 and 1755-1815 MHz band.

This antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance.



Base Station Dual Band Antenna

Specifications

ELECTRICAL:

Frequency Range: 900-940 & 1755-1815 MHz

Gain: $6 \sim 9 \text{ dBi}$

VSWR: 2:1 Typical

Input Impedance: 50 Ω Nominal

Power: 20 Watts

Polarization: Omnidirectional

Radiation Pattern: Azimuth: 360°

Elevation: 30°

Input Connector: Type N Female

MECHANICAL:

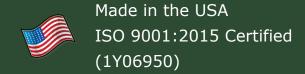
Overall Height: 45 in. (1.14 m)

Color: Black/Green/Tan/Grey

Mounting: UM003 Mast Adapter

(Sold Separately)

^{**}Specifications are subject to change without prior notice.



^{**}All information on this product and the product itself is the property of and is proprietary to Hascall-Denke.





The FXDP1350-2700-D antenna is designed to be used in military, commercial, and other applications where reliability is needed most. This antenna works with all radios within the 1350-2700 MHz band.

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance. Typical Port-to-Port Isolation ranges from $34 \sim 45$ dB.

Being "ground independent", this antenna can be used on all types of structures (metal or non-metal) with no degradation in performance.



Specifications

ELECTRICAL:

Frequency Range: 1350-2700 MHz

Gain: $0.0 \sim 2.0 \text{ dBi +/-}.5$

VSWR: 3.0:1 Maximum

Input Impedance: 50 Ω Nominal

Power: 25 Watts

Polarization: Dual Horizontal & Vertical

Port-to-Port Isolation: 34 ~ 45 dB Typical

Radiation Pattern: Azimuth: 360°

Elevation: 68°

Input Connector: (2) Type N Female

MECHANICAL:

Length: 24.75 in. (0.63 m)

Radome Diameter: 2.75 in. (70 mm)

Net Weight: 5.7 lb. (2.59 kg)

Operational Temps: -40° to $+185^{\circ}$ F

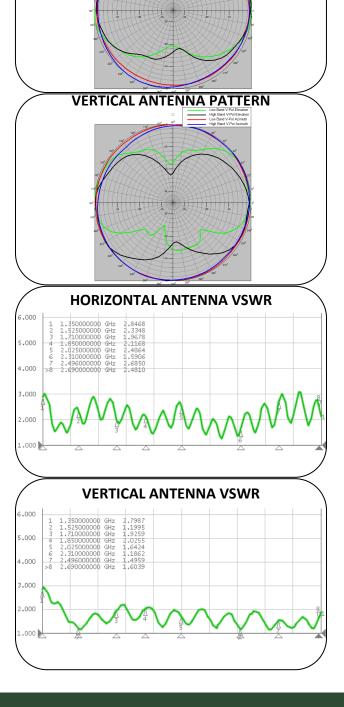
 $(-40^{\circ} \text{ to } +85^{\circ}\text{C})$

Color: Black/Green/Tan/Grey

Mounting: NATO Standard Four .5" (12.7 mm)

Holes, equally spaced on a 4.5"

(114.3 mm) Dia. BHC



HORIZONTAL ANTENNA PATTERN

^{**}Specifications are subject to change without prior notice.



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Base Station Omnidirectional Antenna



The FXDP1800-1830 antenna is designed to be used in military, commercial, and other applications where reliability is needed most. This antenna works with all radios within the 1800-1830 MHz band.

This antenna has excellent main beam stability, side lobe control, VSWR, and gain flatness to improve system performance be increasing data rate and reducing BER (Bit Error Rate).

This antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance.

Robust and tough, this antenna is housed in a thick fiberglass radome double reinforced at the base and is constructed from corrosion resistant materials for reliability in the harshest environments.

UM004AB Mounting Bracket sold separately.



Base Station Omnidirectional Antenna

Specifications

ELECTRICAL:

Frequency Range: 1800-1830 MHz

Gain: 9 dBi +/-.5

VSWR: 2:1 Typical

Input Impedance: 50 Ω Nominal

Power: 30 Watts

Polarization: Vertical

Radiation Pattern: Azimuth: 360°

Elevation: 10°

DC Short: Yes

Input Connector: Type N Female

MECHANICAL:

Overall Height: 36 in. (0.90 m)

Radome Main: 1.25 in. (31.8 mm) OD

Radome Base: 1.50 in. (38 mm) OD

Net Weight: 1.5 lb. (0.67 kg)

Max Wind Load: 150 mph (241 km/h)

Color: Black/Green/Tan/Grey

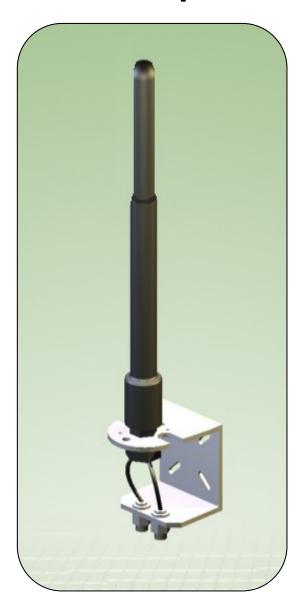
Mounting: 1"-14 UNF Threaded Base Nut

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^{**}Specifications are subject to change without prior notice.



Dual Input Omnidirectional Antenna



The FXDP2.2-2.4 & 4.8-5.2-7-D antenna is designed to be used in military, commercial, and other applications where reliability is needed most. This antenna works with all radios within the 2200-2400 & 4800-5200 MHz bands.

The antenna is designed to provide maximum Data, Video & Voice performance in a wide range of applications whether used in a MIMO, Diversity, or Separate Radio application.

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance. The elements are engineered for additional isolation between the inputs.

- Dual Input Design
- Tower Space Reduction
- MIMO, Diversity, or Separate Radio Ready
- Port-to-Port Isolation -40 dB Typical
- Ideal Pattern/Beam Width and Sidelobe Control
- Designed to Reduce BER (Bit Error Rate)
- Mount Included-Installed at Factory
- Plug & Play Design



Dual Input Omnidirectional Antenna

Specifications

ELECTRICAL:

Frequency Range: 2200-2400 & 4800-5200 MHz

Gain: 7.0 dBi +/- .5

VSWR: < 2.0:1 Typical

Input Impedance: 50 Ω Nominal

Power: 50 Watts

Polarization: Vertical

Port-to-Port Isolation: -40 dB Typical

Radiation Pattern: Azimuth: 360°

Elevation: 23°

Input Connector: (2) Type N Female

MECHANICAL:

Overall Height: 30 in. (0.76 m)

Radome Diameter: 1.25 in. (31.8 mm)

Maximum Wind Load: 150 mph (241 km/h)

Net Weight: 2 lb. (0.90 kg)

Operational Temps: -40° to +185°F

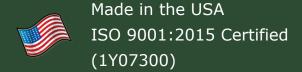
 $(-40^{\circ} \text{ to } +85^{\circ}\text{C})$

Color: Black/Green/Tan/Grey

Mounting: Stainless Steel Base (Pipe/Wall/Mast)

(Up to 2" (50.8 mm) Dia. Mast U-Bolts)

^{**}Specifications are subject to change without prior notice.



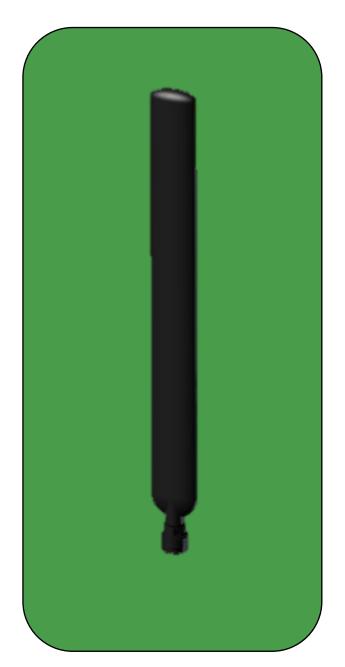
P.O. Box 909, Palmetto, Florida 34220-0909

Tel: 941-723-2833 • Fax: 941-723-1628

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Omnidirectional Antenna



The FXDP2.2-2.5-7 antenna is designed to be used in military manpack, commercial, and other applications where reliability is needed most. This antenna works with all radios within the 2200-2500 MHz band.

The antenna is designed to provide maximum Data, Video & Voice performance in a wide range of applications.

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance.

Robust and tough, this antenna is constructed from corrosion resistant materials for reliability in the harshest environments.

- Low VSWR
- High Gain
- Ideal Pattern Coverage
- Digital Ready



Omnidirectional Antenna

Specifications

ELECTRICAL:

Frequency Range: 2200-2500 MHz

Gain: 2.2-2.3 GHz 6.5 dBi +/- .5

2.3-2.5 GHz 7.0 dBi +/- .5

VSWR: 2.0:1 Maximum

Input Impedance: 50 Ω Nominal

Power: 30 Watts PEP

Polarization: Vertical

Radiation Pattern: Azimuth: 360°

Elevation: 22°

Input Connector: Type N Male

MECHANICAL:

Overall Height: 16 in. (0.41 m)

Radome: 1.5 in. (38 mm) Oval

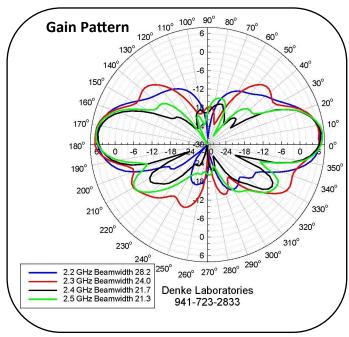
Net Weight: 0.4 lb. (0.18 kg)

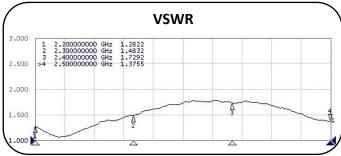
Operational Temps: -4° to +158°F

(-20° to +70°C)

Color: Black/Green/Tan/Grey

Mounting: Type N Male





^{**}Specifications are subject to change without prior notice.



^{**}All information on this product and the product itself is the property of and is proprietary to Hascall-Denke.



Dual Input Omnidirectional Antenna



The FXDP2.3-2.5-7/1710-2170 dual band antenna is designed to be used in military, commercial, and other applications where reliability is needed most. This antenna works with all radios within the 1710-21700 MHz and 2300-2500 MHz band.

The antenna is designed to provide maximum Data, Video & Voice performance whether used in a MIMO or Diversity application.

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance.

Robust and tough, this antenna is housed in a thick fiberglass radome double reinforced at the base and is constructed from corrosion resistant materials for reliability in the harshest environments.

- Dual Input Design
- Tower Space Reduction
- Diversity, MIMO or separate radio ready
- Superior Isolation
- Designed to Reduce BER (Bit Error Rate)
- Ideal Pattern/Beam Width and Side Lobe Control
- Plug & Play Design

ISO 9001:2015 Certified (1Y16200)

Made in the USA



Dual Input Omnidirectional Antenna Specifications

ELECTRICAL:

Frequency Range: 1710-2170 & 2300-2500 MHz

Gain: 4 ~ 5 dBi @ 1710-2170 MHz

 $6 \sim 7 \text{ dBi } @ 2300\text{-}2500 \text{ MHz}$

VSWR: < 2:1 Typical

Input Impedance: 50 Ω Nominal

Power: 35 Watts

Polarization: Vertical

Radiation Pattern: Azimuth: 360°

Elevation: 25° @ 2300-2500 MHz

42° @ 1710-2170 MHz

Input Connector: Type N Female

MECHANICAL:

Overall Height: 36 in. (0.91 m)

Radome Diameter: 1.25 in. (31.8 mm)

Maximum Wind Load: 150 mph (241 km/h)

Net Weight: 3 lb. (1.36 kg)

Operational Temps: -40° to +185°F

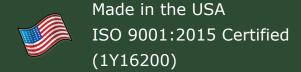
(-40° to +85°C)

Color: Black/Green/Tan/Grey

Mounting: UM007T or UM007 Mount

(Sold Separately)

^{**}Specifications are subject to change without prior notice.



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Dual Input Omnidirectional Antenna



The FXDP2.3-2.5-7-D dual input antenna is designed to be used in military, commercial, and other applications where reliability is needed most. This antenna works with all radios within the 2300-2500 MHz band.

The antenna is designed to provide maximum Data, Video & Voice performance whether used in a MIMO or Diversity application.

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance. In addition the set of elements are phased 180° apart for additional isolation performance between the inputs.

- Dual Input Design
- Tower Space Reduction
- Diversity, MIMO, or separate radio ready
- Designed to Reduce BER (Bit Error Rate)
- Superior Isolation with Radiators Phased Apart
- Plug & Play Design



Dual Input Omnidirectional Antenna

Specifications

ELECTRICAL:

Frequency Range: 2300-2500 MHz

Gain: 7 dBi +/- .5

VSWR: < 2:1 Typical

Input Impedance: 50 Ω Nominal

Power: 50 Watts

Polarization: Vertical

Radiation Pattern: Azimuth: 360°

Elevation: 23°

Input Connector: Type N Female

Port-to-Port Isolation: -40 dB Typical

MECHANICAL:

Overall Height: 30 in. (0.76 m)

Radome Diameter: 1.25 in. (31.8 mm)

Maximum Wind Load: 150 mph (241 km/h)

Net Weight: 2 lb. (0.90 kg)

Operational Temps: -40° to +185°F

(-40° to +85°C)

Color: Black/Green/Tan/Grey

Environmental to Navy Shipboard: Yes

Mounting: Stainless Steel Base (Pipe/Wall/Mast)

Up to 2" (50.8 mm) Dia. Mast U-Bolt

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^{**}Specifications are subject to change without prior notice.



Industrial Antenna



The FXDP2.4-2.5/5.15-5.875 antenna is designed to be used in commercial, military, or private fleet communication systems where reliability is needed most. This antenna works with all radios within the 2400-2500 and 5150 -5875 MHz bands.

This antenna is designed for high durability and reliability when high quality communication is required.

- Dual Input MIMO
- High Quality Reception
- Heavy Duty Base
- Built for Shock, Vibration, & Temp
- Simple Installation



Industrial Antenna

Specifications

ELECTRICAL:

Frequency Range: 2400-2500 MHz (2 Inputs)

5150-5875 MHz (2 inputs)

Gain: 3~ 4 dBi at 2400-2500 MHz

5.5-7dBi at 5150-5875 MHz

VSWR: < 2.0:1 Typical (In Bands)

Input Impedance: 50 Ω Nominal

Polarization: Vertical

Input Connector: (4) Type N Male

Coax: RF195

Coax Length: (4) 3' Pigtails

MECHANICAL:

Overall Height: 8 in. (203 mm)

Diameter: 4 in. (102 mm) OD

Net Weight: 4 lb. (1.81 kg)

Maximum Wind Load: 125 mph (201 km/h)

Operational Temps: -40° to +185°F

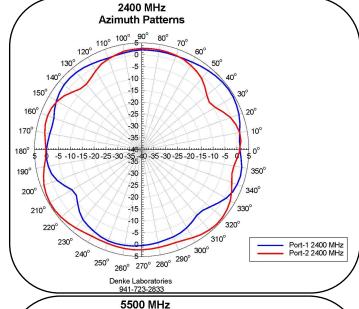
(-40° to +85°C)

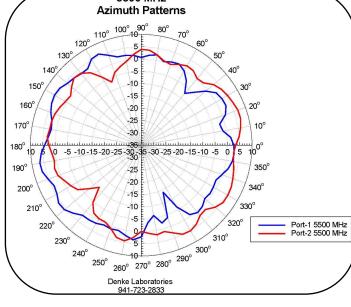
Color: Black (Other colors available.)

Mounting: Up to 2" 51mm Dia U Bolt Mast

Mount

H-PLANE PATTERN





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The FXDP4.4-4.9-9-D antenna is designed to be used in military, commercial, and other applications where reliability is needed most. This antenna works with all radios within the 4400-4900 MHz band.

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance. Typical Port-to-Port Isolation ranges from $31 \sim 45$ dB.

Being "ground independent", this antenna can be used on all types of structures (metal or non-metal) with no degradation in performance.





Specifications

ELECTRICAL:

Frequency Range: 4400-4900 MHz

Gain: 9 dBi +/- .5

VSWR: 2.0:1 Maximum

Input Impedance: 50 Ω Nominal

Power: 27 Watts

Polarization: Horizontal & Vertical

Port-to-Port Isolation: $31 \sim 45 \text{ dB}$

Radiation Pattern: Azimuth: 360°

Elevation: 13°

DC Short: Yes

Input Connector: (2) Type N Female

MECHANICAL:

Overall Height: 40 in. (1.01 m)

Radome Diameter: 1.5 in. (38.1 mm)

Net Weight: 2.7 lb. (1.22 kg)

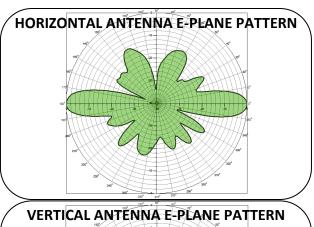
Operational Temps: -40° to +185°F

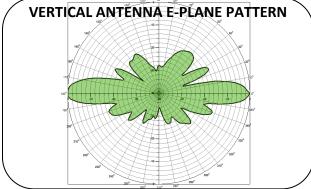
 $(-40^{\circ} \text{ to } +85^{\circ}\text{C})$

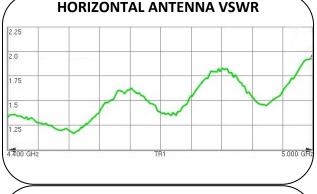
Color: Black/Green/Tan/Grey

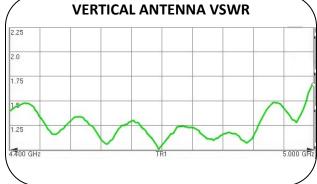
Mounting: UM007T or UM007F Mount

(Sold Separately)









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The FXDP4.4-4.9-7-D antenna is designed to be used in military, commercial, and other applications where reliability is needed most. This antenna works with all radios within the 4400-4900 MHz band.

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance. Typical Port-to-Port Isolation ranges from $31 \sim 45$ dB.

Being "ground independent", this antenna can be used on all types of structures (metal or non-metal) with no degradation in performance.





Specifications

ELECTRICAL:

Frequency Range: 4400-4900 MHz

Gain: 7 dBi +/- .5

VSWR: 2.0:1 Maximum

Input Impedance: 50 Ω Nominal

Power: 27 Watts

Polarization: Horizontal & Vertical

Port-to-Port Isolation: $31 \sim 45 \text{ dB}$

Radiation Pattern: Azimuth: 360°

Elevation: 17° ~ 18°

DC Short: Yes

Input Connector: (2) Type N Female

MECHANICAL:

Overall Height: 32 in. (0.81 m)

Radome Diameter: 1.5 in. (38.1 mm)

Net Weight: 2.4 lb. (1.09 kg)

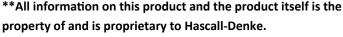
Operational Temps: -40° to +185°F

 $(-40^{\circ} \text{ to } +85^{\circ}\text{C})$

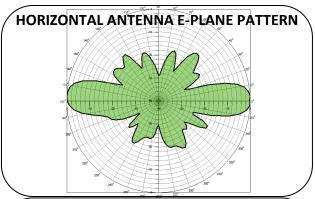
Color: Black/Green/Tan/Grey

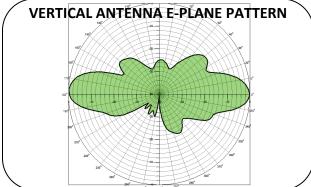
Mounting: UM007T or UM007F Mount

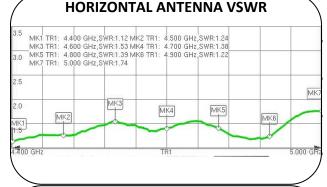
(Sold Separately)

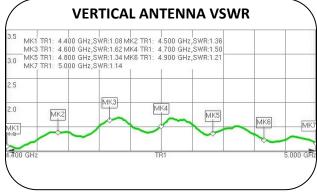


^{**}Specifications are subject to change without prior notice.













The FXDP4.4-5.0-9-D antenna is designed to be used in military, commercial, and other applications where reliability is needed most. This antenna works with all radios within the 4400-5000 MHz band.

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance. Typical Port-to-Port Isolation ranges from $34 \sim 45$ dB.

Being "ground independent", this antenna can be used on all types of structures (metal or non-metal) with no degradation in performance.





Specifications

ELECTRICAL:

Frequency Range: 4400-5000 MHz

Gain: 9.0 dBi +/- .5

VSWR: 2.0:1 Maximum

Input Impedance: 50 Ω Nominal

Power: 27 Watts

Polarization: Horizontal & Vertical

Port-to-Port Isolation: 34 ~ 45 dB Typical

Radiation Pattern: Azimuth: 360°

Elevation: 13°

DC Short: Yes

Input Connector: (2) Type N Female

MECHANICAL:

Overall Height: 40 in. (1.01 m)

Radome Diameter: 1.5 in. (38.1 mm)

Net Weight: 2.7 lb. (1.22 kg)

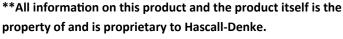
Operational Temps: -40° to +185°F

 $(-40^{\circ} \text{ to } +85^{\circ}\text{C})$

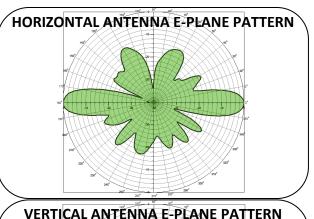
Color: Black/Green/Tan/Grey

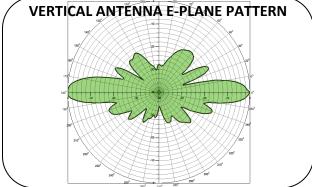
Mounting: UM007T or UM007F Mount

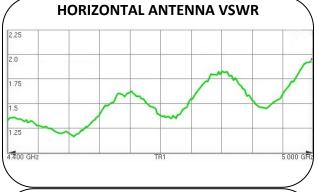
(Sold Separately)

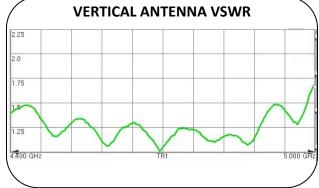


^{**}Specifications are subject to change without prior notice.













The FXDP4.4-5.0-7-D antenna is designed to be used in military, commercial, and other applications where reliability is needed most. This antenna works with all radios within the 4400-5000 MHz band.

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance. Typical Port-to-Port Isolation ranges from 31 ~ 45 dB.

Being "ground independent", this antenna can be used on all types of structures (metal or non-metal) with no degradation in performance.





Specifications

ELECTRICAL:

Frequency Range: 4400-5000 MHz

Gain: 7 dBi +/- .5

VSWR: 2.0:1 Maximum

Input Impedance: 50 Ω Nominal

Power: 27 Watts

Polarization: Horizontal & Vertical

Port-to-Port Isolation: $31 \sim 45 \text{ dB}$

Radiation Pattern: Azimuth: 360°

Elevation: 17° ~ 18°

DC Short: Yes

Input Connector: (2) Type N Female

MECHANICAL:

Overall Height: 32 in. (0.81 m)

Radome Diameter: 1.5 in. (38.1 mm)

Net Weight: 2.4 lb. (1.09 kg)

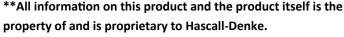
Operational Temps: -40° to +185°F

 $(-40^{\circ} \text{ to } +85^{\circ}\text{C})$

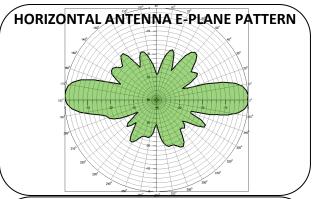
Color: Black/Green/Tan/Grey

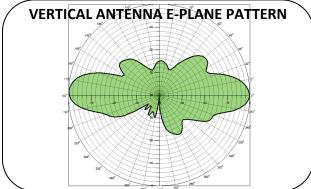
Mounting: UM007T or UM007F Mount

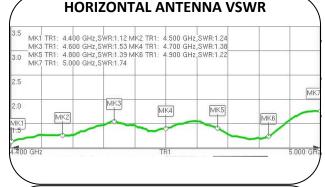
(Sold Separately)

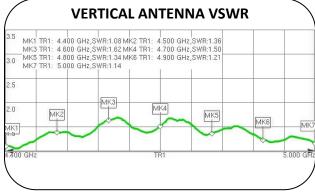


^{**}Specifications are subject to change without prior notice.













The FXDP4.4-5.0-9-DAB antenna is designed to be used in military, commercial, and other applications where reliability is needed most. This antenna works with all radios within the 4400-5000 MHz band.

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance. Typical Port-to-Port Isolation ranges from $34 \sim 45$ dB.

Being "ground independent", this antenna can be used on all types of structures (metal or non-metal) with no degradation in performance.





Specifications

ELECTRICAL:

Frequency Range: 4400-5000 MHz

Gain: 9.0 dBi +/- .5

VSWR: 2.0:1 Maximum

Input Impedance: 50 Ω Nominal

Power: 27 Watts

Polarization: Horizontal & Vertical

Port-to-Port Isolation: 34 ~ 45 dB Typical

Radiation Pattern: Azimuth: 360°

Elevation: 13°

DC Short: Yes

Input Connector: (2) Type N Female

MECHANICAL:

Overall Height: 39.5 in. (1.0 m)

Radome Diameter: 1.5 in. (38.1 mm)

Net Weight: 3.8 lb. (1.72 kg)

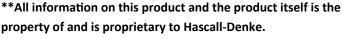
Operational Temps: -40° to +185°F

 $(-40^{\circ} \text{ to } +85^{\circ}\text{C})$

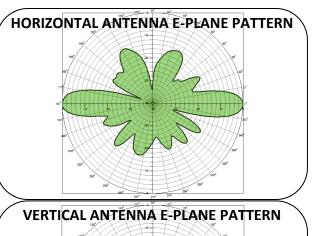
Color: Black/Green/Tan/Grey

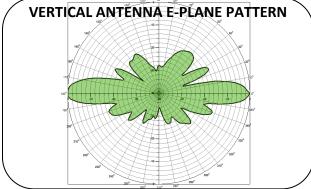
Mounting: UM007T or UM007F Mount

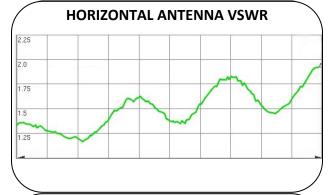
(Sold Separately)

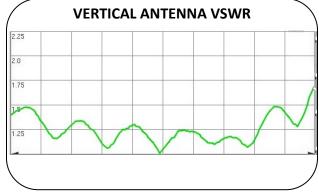


^{**}Specifications are subject to change without prior notice.



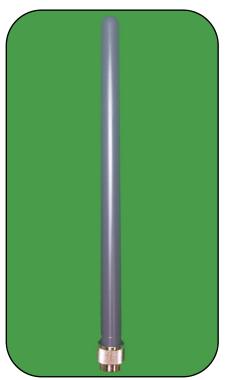


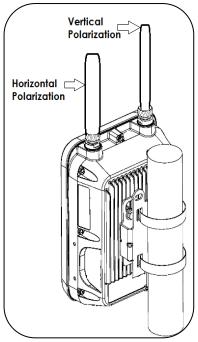






Vertical Polarized Omni Mesh Ready





At the peak of technology these lightweight antennas support polarization diversification (as shown in image on left), optimizing high volume bit data rate streams used in voice data and video applications

The FXDP4.9-6.0-V coupled with the FXDP4.9-6.0-H achieves enhanced dual polarization supporting equal bid data streams. Both antennas are ground plane independent and utilize a connector base for quick install. In addition they have the best overall beam width and gain for optimizing mesh networks.

Robust and tough, these antennas are housed in corrosion resistant materials for reliability in the harshest environments.

- Cost Effective
- Ideal for Mesh and MiMo
- Polarization Diversity
- True Polarization (Vertical or Horizontal)
- Supports High Volume Bit Data Streams
- Superior Isolation used in combination
- Ground Plane Independence
- Lightweight and Tough
- Corrosion Resistant Materials
- Ask about our dual input combination antenna now available for fleet applications



Vertical Polarized Omni

Mesh Ready

Specifications

ELECTRICAL:

Frequency Range: 4900-6000MHz

Gain: 8 dBi +/- .5

VSWR: < 2:1

Input Impedance: 50 Ω Nominal

Power: 20 Watts Max

Polarization: Vertical

Radiation Pattern: Azimuth: 360°

Elevation: 17°

Input Connector Type N, Male (Female available)

MECHANICAL:

Overall Height: 10in. (254mm)

Width: 5/8 in. (16 mm)

Net Weight: 3.2 oz . (.09kg)

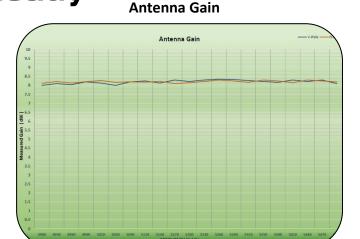
Compliance: Built to meet: MIL-STD-810F

Color: White, Gray, Black

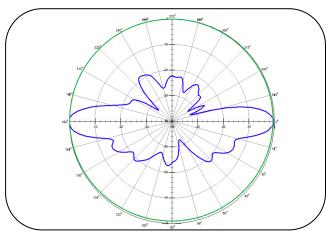
Other colors available

Mounting: Connector Based

Windloading: 175 Mph



Antenna Patterns







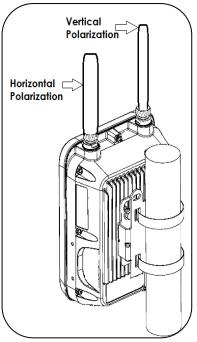
^{**}All information on this product and the product itself is the property of and is proprietary to Hascall-Denke.

^{**}Specifications are subject to change without prior notice.



Horizontal Polarized Omni Mesh Ready





At the peak of technology these lightweight antennas support polarization diversification (as shown in image on left), optimizing high volume bit data rate streams used in voice data and video applications

The FXDP4.9-6.0-H coupled with the FXDP4.9-6.0-V achieves enhanced dual polarization supporting equal bid data streams. Both antennas are ground plane independent and utilize a connector base for quick install. In addition they have the best overall beam width and gain for optimizing mesh networks.

Robust and tough, these antennas are housed in corrosion resistant materials for reliability in the harshest environments.

- Cost Effective
- Ideal for Mesh and MiMo
- Polarization Diversity
- True Polarization (Vertical or Horizontal)
- Supports High Volume Bit Data Streams
- Superior Isolation used in combination
- Ground Plane Independence
- Lightweight and Tough
- Corrosion Resistant Materials
- Ask about our dual input combination antenna now available for fleet applications



Horizontal Polarized Omni

Mesh Ready

Specifications

ELECTRICAL:

Frequency Range: 4900-6000MHz

Gain: 8 dBi +/- .5

VSWR: < 2:1

Input Impedance: 50 Ω Nominal

Power: 20 Watts Max

Polarization: Horizontal

Radiation Pattern: Azimuth: 360°

Elevation: 17°

Input Connector Type N, Male (Female available)

MECHANICAL:

Overall Height: 10in. (254mm) Width: 1.5 in. (38 mm)

Net Weight: 6.5 oz (.184kg)

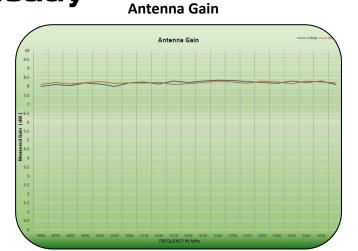
Compliance: Built to meet: MIL-STD-810F

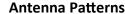
Color: White, Gray, Black

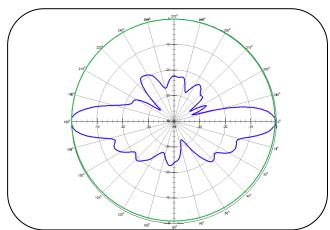
Other colors available

Mounting: Connector Based

Windloading: 175 Mph







Antenna VSWR



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^{**}Specifications are subject to change without prior notice.





The FXDP5.0-6.0-7-D antenna is designed to be used in military, commercial, and other applications where reliability is needed most. This antenna works with all radios within the 5000-6000 MHz band.

This antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance. Typical Port-to-Port Isolation ranges from $31 \sim 45$ dB.

Being "ground independent", this antenna can be used on all types of structures (metal or non-metal) with no degradation in performance.





Specifications

ELECTRICAL:

Frequency Range: 5000-6000 MHz

Gain: 7 dBi +/- .5

VSWR: 2.0:1 Maximum

Input Impedance: 50 Ω Nominal

Power: 27 Watts

Polarization: Horizontal & Vertical

Port-to-Port Isolation: $31 \sim 45 \text{ dB}$

Radiation Pattern: Azimuth: 360°

Elevation: 17° ~ 18°

Input Connector: (2) Type N Female

MECHANICAL:

Overall Height: 36 in. (0.92 m)

Radome Diameter: 1.5 in. (38.1 mm)

Net Weight: 4 lb. (1.81 kg)

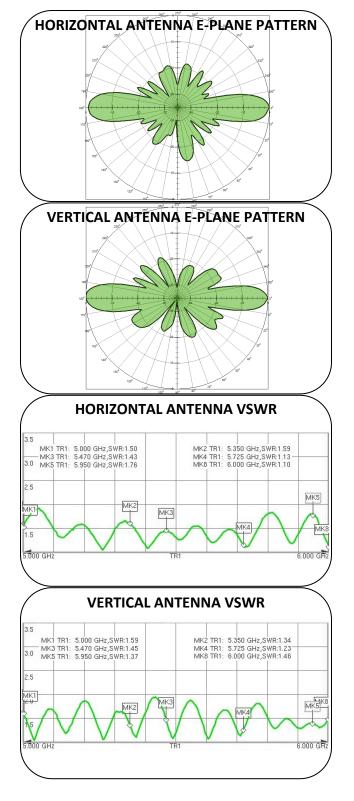
Operational Temps: -40° to +185°F

 $(-40^{\circ} \text{ to } +85^{\circ}\text{C})$

Color: Black/Green/Tan/Grey

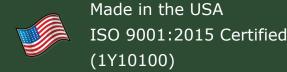
Mounting: UM007T or UM007F Mount

(Sold Separately)



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^{**}Specifications are subject to change without prior notice.





Dual Input Omnidirectional Antenna



The FXDP5.0-6.0-7-DAB dual input antenna is designed to be used in military, commercial, and other applications where reliability is needed most. This antenna works with all radios within the 5000-6000 MHz band.

The antenna is designed to provide maximum Data, Video & Voice performance whether used in a MIMO or Diversity application.

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance. In addition the set of elements are phased 180° apart for additional isolation performance between the inputs.

- Dual Input Design
- Tower Space Reduction
- Diversity, MIMO, or separate radio ready
- Designed to Reduce BER (Bit Error Rate)
- Superior Isolation with Radiators Phased Apart
- Plug & Play Design



Dual Input Omnidirectional Antenna

Specifications

ELECTRICAL:

Frequency Range: 5000-6000 MHz

Gain: 7 dBi +/- .5

VSWR: < 2:1 Typical

Input Impedance: 50 Ω Nominal

Power: 50 Watts

Polarization: Vertical

Radiation Pattern: Azimuth: 360°

Elevation: 17° ~ 18°

Input Connector: Type N Female

Port-to-Port Isolation: -40 dB Typical

MECHANICAL:

Overall Height: 28 in. (0.71 m)

Radome Diameter: 1 in. (25.4 mm)

Maximum Wind Load: 150 mph (241 km/h)

Net Weight: 2 lb. (0.90 kg)

Operational Temps: -40° to +185°F

(-40° to +85°C)

Color: Black/Green/Tan/Grey

Environmental to Navy Shipboard: Yes

Mounting: Stainless Steel Base (Pipe/Wall/Mast)

Up to 2" (50.8 mm) Dia. Mast U-Bolt



^{**}All information on this product and the product itself is the property of and is proprietary to Hascall-Denke.

^{**}Specifications are subject to change without prior notice.





The FXDP5.0-6.0-9-D antenna is designed to be used in military, commercial, and other applications where reliability is needed most. This antenna works with all radios within the 5000-6000 MHz band.

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance. Typical Port-to-Port Isolation ranges from $34 \sim 45$ dB.

Being "ground independent", this antenna can be used on all types of structures (metal or non-metal) with no degradation in performance.





Specifications

ELECTRICAL:

Frequency Range: 5000-6000 MHz

Gain: 9.0 dBi +/- .5

VSWR: 2.0:1 Maximum

Input Impedance: 50 Ω Nominal

Power: 27 Watts

Polarization: Horizontal & Vertical

Port-to-Port Isolation: 34 ~ 45 dB Typical

Radiation Pattern: Azimuth: 360°

Elevation: 13°

DC Short: Yes

Input Connector: (2) Type N Female

MECHANICAL:

Overall Height: 39.5 in. (1.0 m)

Radome Diameter: 1.5 in. (38.1 mm)

Net Weight: 3.8 lb. (1.72 kg)

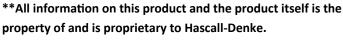
Operational Temps: -40° to +185°F

 $(-40^{\circ} \text{ to } +85^{\circ}\text{C})$

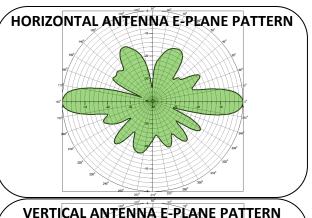
Color: Black/Green/Tan/Grey

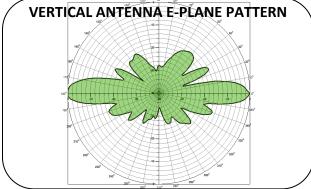
Mounting: UM007T or UM007F Mount

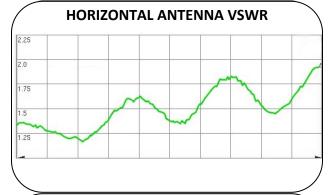
(Sold Separately)

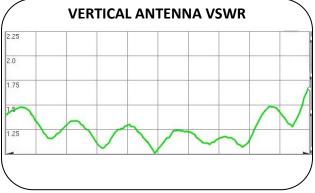


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The FXDP5.0-6.0-9-DAB antenna is designed to be used in military, commercial, and other applications where reliability is needed most. This antenna works with all radios within the 5000-6000 MHz band.

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance. Typical Port-to-Port Isolation ranges from $34 \sim 45$ dB.

Being "ground independent", this antenna can be used on all types of structures (metal or non-metal) with no degradation in performance.





Specifications

ELECTRICAL:

Frequency Range: 5000-6000 MHz

Gain: 9.0 dBi +/- .5

VSWR: 2.0:1 Maximum

Input Impedance: 50 Ω Nominal

Power: 27 Watts

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Radiation Pattern: Azimuth: 360°

Elevation: 13°

DC Short: Yes

Input Connector: (2) Type N Female

MECHANICAL:

Overall Height: 39.5 in. (1.0 m)

Radome Diameter: 1.5 in. (38.1 mm)

Net Weight: 3.8 lb. (1.72 kg)

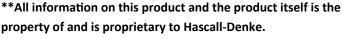
Operational Temps: -40° to +185°F

 $(-40^{\circ} \text{ to } +85^{\circ}\text{C})$

Color: Black/Green/Tan/Grey

Mounting: UM007T or UM007F Mount

(Sold Separately)



^{**}Specifications are subject to change without prior notice.

