



# X7-FRO-840

## 40° Azimuth Beam, 96.0 inches

Directing our energies for you.

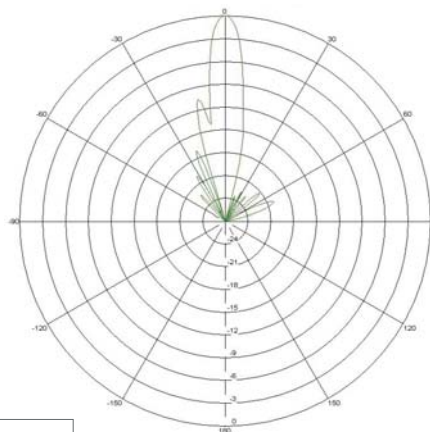
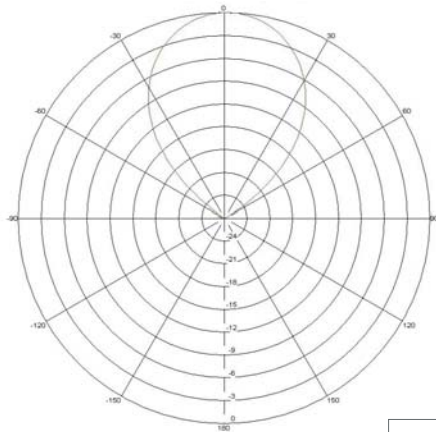
698-800 MHz Xpol

### Electrical Specifications

Frequency	698-896 MHz
Polarization	Slant +/- 45
Gain	17.2 dBd
Horizontal Beam (3dB Points)	40°
Vertical Beam (3dB Points)	8°
Elect. Downtilt Range, 2° Increments	0-10°
VSWR / Return Loss	<1.45:1 / 14.7 dB
VSWR Opt "i" / Return Loss	<1.50:1 / 14.0 dB
Front-to-Back at Horizon	>30 dB
Upper Side Lobe Suppression	<-18 dB
Impedance	50 Ohms
Power Input Per Connector	500 CW at 800 MHz
Isolation	<-28 dB
Intermodulation (2x20W)	<-150 dBc

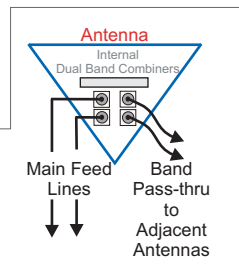
### Mechanical Specifications

Input Connector (female)	Back 7/16 DIN (silver finish) or w/bot. opt.
Antenna Dimensions (LxWxD)	96.0 x 18.8 x 8.9 in. (2438 x 478 x 226mm)
*Antenna Weight	52 lbs
Bracket Weight	18.2 lbs
Lightning Protection	Direct Ground
RF Distribution	Printed Microstrip Substrate
Radome	Ultra High-Strength Luran
Weatherability	UV Stabilized, ASTM D1925
Radome Water Absorption	ASTM D570, 0.45%
Environmental	MIL-STD-810E
Wind Survival	135 mph
Front Wind Load @ 100MPH	312 lbs
Equivalent Flat Plate @ 100MPH	6.36 sq-ft. (c=2)
Mounting Brackets	Fits 3.5 Inch Max. O.D. Pipe
Mechanical Downtilt Range	0-6°
Clamps/Bolts	Hot Dip Galvanized Steel/Stainless Steel



#### Available with Opt "i"

- The Opt "i" antenna option provides Integrated Diplexers that reduce mainline cables and eliminate separate external devices.



#### 1 Year Warranty

Recommended Connector Coupling Torque  
7/16 DIN: 220-265 lbf-in (25-30 N-m)

Return Loss at pass-thru port into 50Ω load  $\geq 17.7$  dB

### Ordering Information & Options

- X7-FRO-840-x "-x" is a placeholder for the built-in fixed electrical downtilt in degrees, set to 0, 2, 4, 6, 8 or 10
- X7-FRO-840-xi to add the Opt "i" option for integrated diplexers, add "i" to model number
- X7-FRO-840-xi-bot for bottom mounted connectors, add "-bot" (otherwise antenna comes standard with back mounted connectors)
- X7-FRO-840-xi-bot-j# add a "j#" to add a 1/2" RF cable, where "#" is the cable length, "j2" is 2 meters, "j4" is 4 meters, "j6" is 6 meters...

\*Antenna Weight may vary slightly with options such as back or bottom connector and integrated diplexers.