

# Product Specifications



## TBXLHA-6565C-VTM

DualPol® Tri-band Antenna, 824–960 MHz and 1710–2180 MHz, 65° horizontal beamwidth, RET compatible variable electrical tilt



- Three DualPol® antennas under one radome
- Interleaved dipole technology providing for attractive, low wind load mechanical package
- Each antenna is independently capable of field adjustable electrical tilt
- Fully compatible with Andrew Teletilt® remote control system
- Tri-band with one band at 824–960 MHz and two bands at 1710–2180 MHz; three independent DualPol® antennas under one radome

## CHARACTERISTICS

### General Specifications

Antenna Type	DualPol® tri-band
Brand	DualPol®   Teletilt®
Operating Frequency Band	1710 – 2180 MHz   824 – 960 MHz

### Electrical Specifications

Frequency Band, MHz	824–896	870–960	1710–1880	1850–1990	1920–2180
Beamwidth, Horizontal, degrees	68	66	68	65	62
Gain, dBd	14.6	15.4	14.5	14.7	14.9
Gain, dBi	16.7	17.5	16.6	16.8	17.0
Beamwidth, Vertical, degrees	7.5	7.2	7.3	7.0	6.5
Beam Tilt, degrees	0–8	0–8	2–10	2–10	2–10
Upper Sidelobe Suppression (USLS), typical, dB	17	17	18	16	15
Front-to-Back Ratio at 180°, dB	25	25	28	26	25
Isolation, dB	30	30	30	30	30
Isolation, Intersystem, dB	30	30	30	30	30
VSWR   Return Loss, db	1.5:1   14.0	1.5:1   14.0	1.5:1   14.0	1.5:1   14.0	1.5:1   14.0
Intermodulation Products, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150
Input Power, maximum, watts	300	300	200	200	200
Polarization	±45°	±45°	±45°	±45°	±45°
Impedance, ohms	50	50	50	50	50
Lightning Protection	dc Ground	dc Ground	dc Ground	dc Ground	dc Ground

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## Mechanical Specifications

Color	Off white
Connector Interface	7-16 DIN Female
Connector Location	Bottom
Connector Quantity	6
Wind Loading, maximum	922.0 N @ 150 km/h 207.3 lbf @ 150 km/h
Wind Speed, maximum	201.0 km/h   124.9 mph

## Dimensions

Depth	132.0 mm   5.2 in
Length	2574.0 mm   101.3 in
Width	269.0 mm   10.6 in
Net Weight	25.4 kg   56.0 lb

## Remote Electrical Tilt (RET) Information

Model with Factory Installed AISG 1.1 Actuator	TBXLHA-6565C-R2M
Model with Factory Installed AISG 2.0 Actuator	TBXLHA-6565C-A3M
RET System	Teletilt®

## Regulatory Compliance/Certifications

### Agency

RoHS 2002/95/EC  
China RoHS SJ/T 11364-2006

### Classification

Compliant by Exemption  
Above Concentration Value (MCV)



## INCLUDED PRODUCTS



### **600899A-2**

Downtilt Mounting Kit for 4.5 in (114.3 mm) OD round members

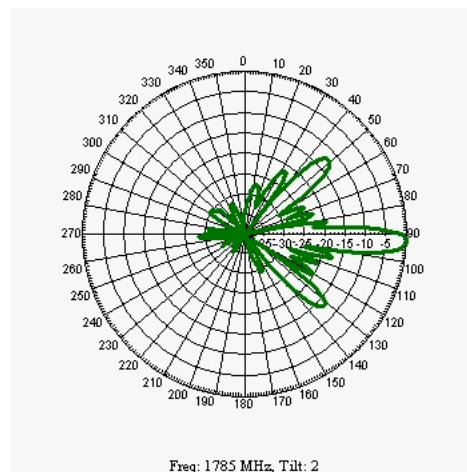
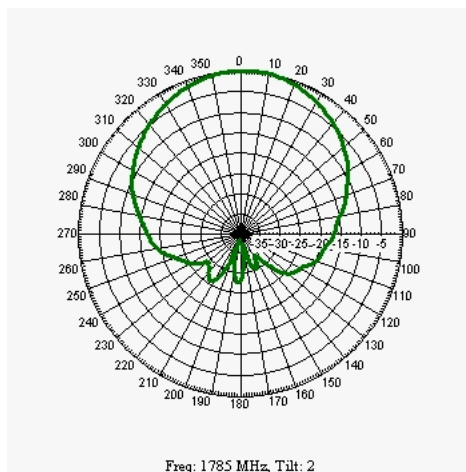
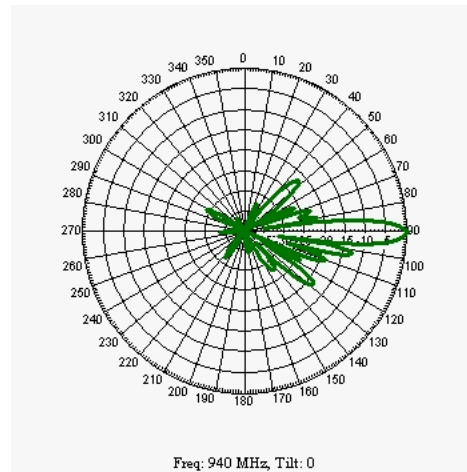
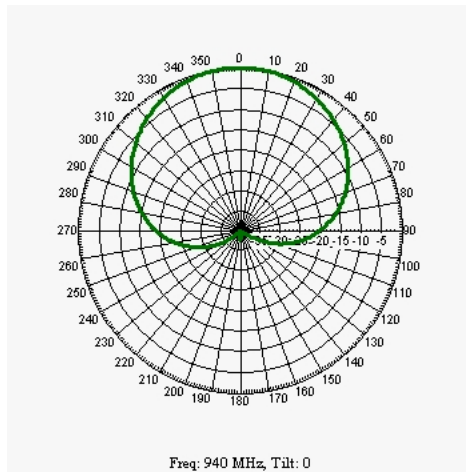
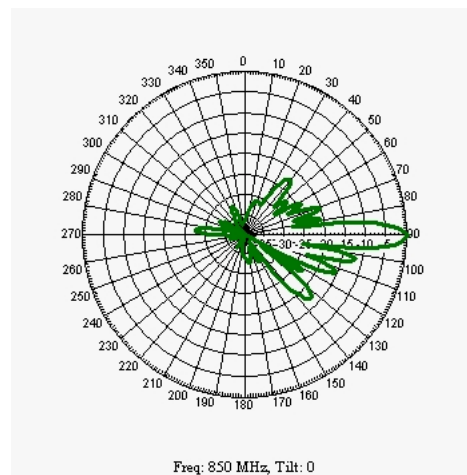
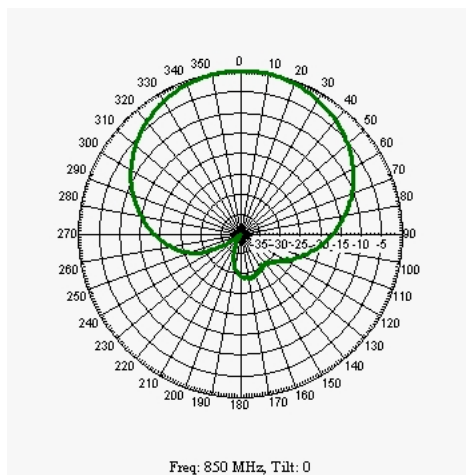
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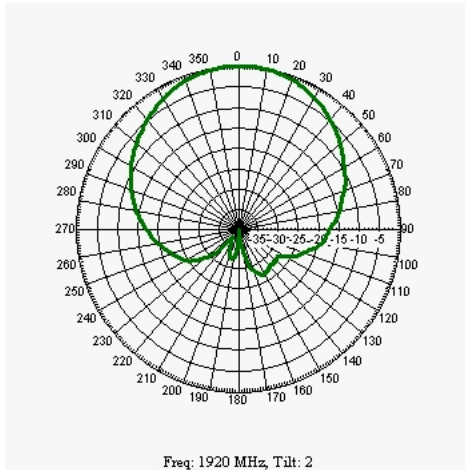
## Horizontal Pattern

## Vertical Pattern

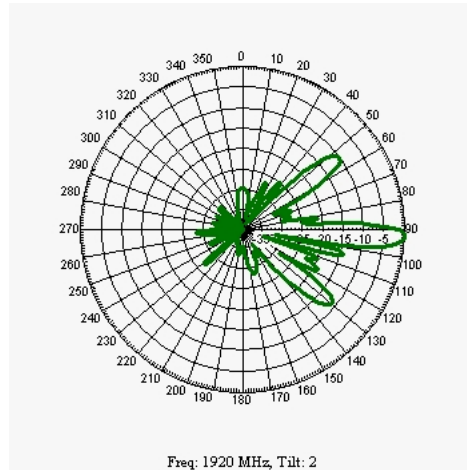


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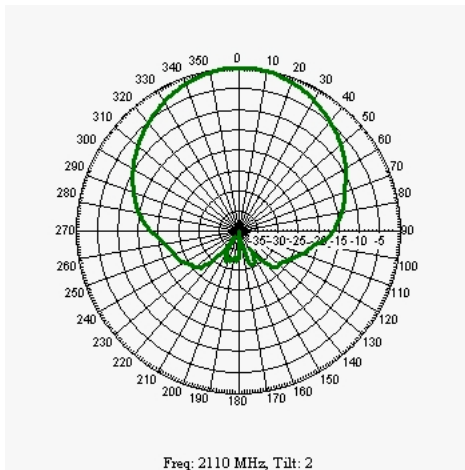
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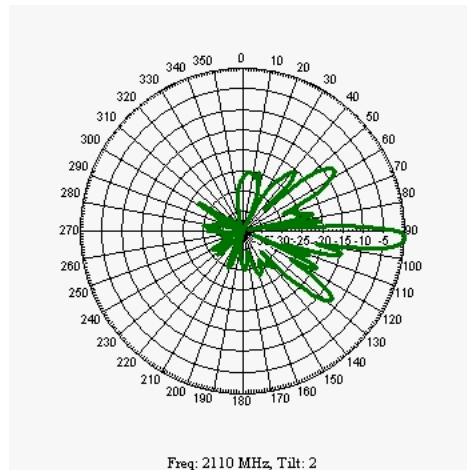
Freq: 1920 MHz, Tilt: 2



Freq: 1920 MHz, Tilt: 2



Freq: 2110 MHz, Tilt: 2



Freq: 2110 MHz, Tilt: 2