

#### Twin Band | Quad Port | Panel Antenna | (2x) X-Pol | 65° / 65° | 14.0 / 14.0 dBi | Variable Tilt

• Twin band, quad-port panel antenna with variable electrical tilt 4x4 MIMO · Patented internal RET actuator adds no additional length to the antenna **Ordering Options** Model Number When ordering, replace "x" in the model number with one of the options listed below. OUAD654C0000M Manual Electrical Tilt Remote Electrical Tilt AISG v2.0 / 3GPP with an MDCU RET Actuator QUAD654C0000G Remote Electrical Tilt AISG v2.0 / 3GPP with an MDDU RET Actuator QUAD654C0000L Mounting bracket kits and other accessories are ordered separately. **Electrical Characteristics** (2x) 696-900 MHz 696-806 MHz 806-900 MHz Frequency Bands (2x) ±45° (Quad-Pol) Polarization Horizontal Beamwidth 72° 65° 19° Vertical Beamwidth 16° Gain 13.2 dBi 14.0 dBi Electrical Downtilt 0-14° 50Ω Impedance VSWR ≤ 1.5:1 17 dB 17 dB Upper Sidelobe Suppression > 25 dB > 25 dB Front-to-Back Ratio Inband Isolation 25 dB Isolation Between Bands 28 dB IM3 (2x20W carrier) < -153 dBc Input Power (4x) 500 W Total Number of Connectors Antennas has 4 connectors located at the bottom 696-900 MHz (2x) 7/16-DIN Female Connectors Per Band 696-900 MHz (2x) 7/16-DIN Female Diplexed No Lightning Protection Direct Ground **Operating Temperature** -40° to +60° C (-40° to +140° F) **Mechanical Characteristics** 53.7 x 20.5 x 7.1 Dimensions (Length x Width x Depth) 1365 x 520 x 180 mm in Depth with Z-Brackets 227 8.9 in mm

18.1 kg

18.8 kg

> 241

0.71 m<sup>2</sup>

0.25

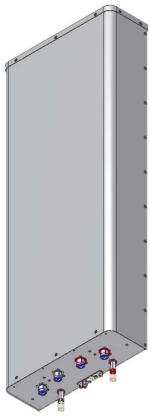
869 N

300

km/hr

m<sup>2</sup>

N



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40.0 lbs

41.4 lbs

> 150

7.7 ft<sup>2</sup>

2.6 ft<sup>2</sup>

195 lbf

67 lbf

mph

Survival Wind Speed

(160 km/hr or 100 mph)

Wind Area

Wind Loads

Weight without Mounting Brackets: MET

Weight without Mounting Brackets: RET

Front

Side

Front

Side



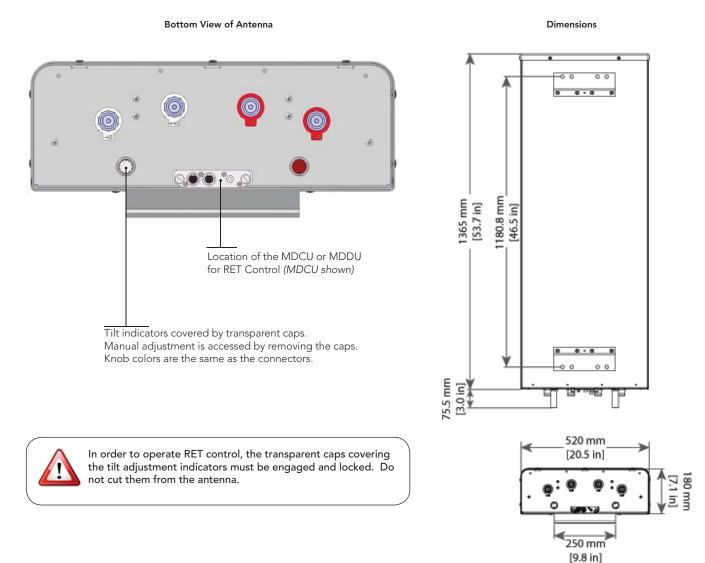
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rolled separately. Tilt indicator(s	are covered by	removable tra	ansparent cap(s).	
A colored knob at the end of the tilt indicator allows change of the tilt without need of a tool. The knob color is identical to the corresponding connector ring color. To access the knob, remove the cap by turning it counter-clockwise. It is re-installed by opposite rotation. Do not remove the transparent cap(s) from the antenna.				
The remote control of the electrical tilt is managed by either a Multi-Device Control Unit (MDCU) or a Multi-Device Dual Unit (MDDU) inserted in the bottom of the antenna. A single actuator individually controls the tilt of each band (no need for daisy chain cables between the bands). This module does not add any additional length to the antenna. For RET control, the transparent caps must be in place and locked. The tilt angle indicators always remain visible and the antenna still has manual tilt control (manual override).				
Select one of the following RET actuators when ordering this antenna.				
Multi-Device Control Unit (MCDU)		The MDCU is an electronic module that allows the remote control of the electrical downtilt (RET) in Amphenol antennas with factory embedded motors. The MDCU is factory installed. Refer to ordering options.		
Multi-Device Dual Unit (MDDU)		The MDDU allows two separate RET Controllers to independently drive the RETs in Amphenol antennas with factory installed motors (for antenna sharing). The MDDU is factory installed. Refer to ordering options.		
In order to operate RET control, the transparent caps covering the tilt adjustment indicators must be engaged and locked. Do not cut them from the antenna.				
Do not install the antenna with the connectors facing upward.				
Part Number	Imag	e	Fits Pipe Diameter	Weight
tely unless otherwise indicated.	Select from the c	ptions listed	below.	
36210006			40-115 mm 1.6-4.5 in	4.1 kg 9 lbs
	A colored knob at the end of identical to the corresponding clockwise. It is re-installed by The remote control of the ele Dual Unit (MDDU) inserted in need for daisy chain cables b RET control, the transparent of antenna still has manual tilt of Select one of the following R Multi-Device Control Unit (MDD Multi-Device Dual Unit (MDD In order to operate RET contri locked. Do not cut them from Do not install the antenna witt Part Number tely unless otherwise indicated.	A colored knob at the end of the tilt indicator a identical to the corresponding connector ring clockwise. It is re-installed by opposite rotatio   The remote control of the electrical tilt is mana Dual Unit (MDDU) inserted in the bottom of th need for daisy chain cables between the band. RET control, the transparent caps must be in p antenna still has manual tilt control (manual ov Select one of the following RET actuators when Multi-Device Control Unit (MCDU)   Multi-Device Dual Unit (MDDU)   In order to operate RET control, the transparer locked. Do not cut them from the antenna. Do not install the antenna with the connectors   Part Number Image tely unless otherwise indicated. Select from the context of	A colored knob at the end of the tilt indicator allows change identical to the corresponding connector ring color. To accid clockwise. It is re-installed by opposite rotation. Do not real time remote control of the electrical tilt is managed by eithe Dual Unit (MDDU) inserted in the bottom of the antenna. A need for daisy chain cables between the bands). This modu RET control, the transparent caps must be in place and lock antenna still has manual tilt control (manual override).   Select one of the following RET actuators when ordering the Multi-Device Control Unit (MCDU) The MDCU electrical do motors. The MDCU for the RE antenna shall has an elected to the select control.   Multi-Device Dual Unit (MDDU) The MDCU for the RE antenna shall options.   In order to operate RET control, the transparent caps cover locked. Do not cut them from the antenna. Do not install the antenna with the connectors facing upware tely unless otherwise indicated. Select from the options listed	identical to the corresponding connector ring color. To access the knob, remove the cap by clockwise. It is re-installed by opposite rotation. Do not remove the transparent cap(s) from the remote control of the electrical tilt is managed by either a Multi-Device Control Unit (MDDU) inserted in the bottom of the antenna. A single actuator individually continued for daisy chain cables between the bands). This module does not add any additional IRET control, the transparent caps must be in place and locked. The tilt angle indicators alw antenna still has manual tilt control (manual override).   Select one of the following RET actuators when ordering this antenna.   Multi-Device Control Unit (MCDU) The MDCU is an electronic module that alloc electrical downtilt (RET) in Amphenol antenna motors. The MDCU is factory installed. Ref   Multi-Device Dual Unit (MDDU) The MDDU allows two separate RET Control drive the RETs in Amphenol antennas with fantenna sharing). The MDDU is factory installed. Ref   In order to operate RET control, the transparent caps covering the tilt adjustment indicators locked. Do not cut them from the antenna. Do not install the antenna with the connectors facing upward.   Part Number Image Fits Pipe Diameter   tely unless otherwise indicated. Select from the options listed below. Fits Pipe Diameter

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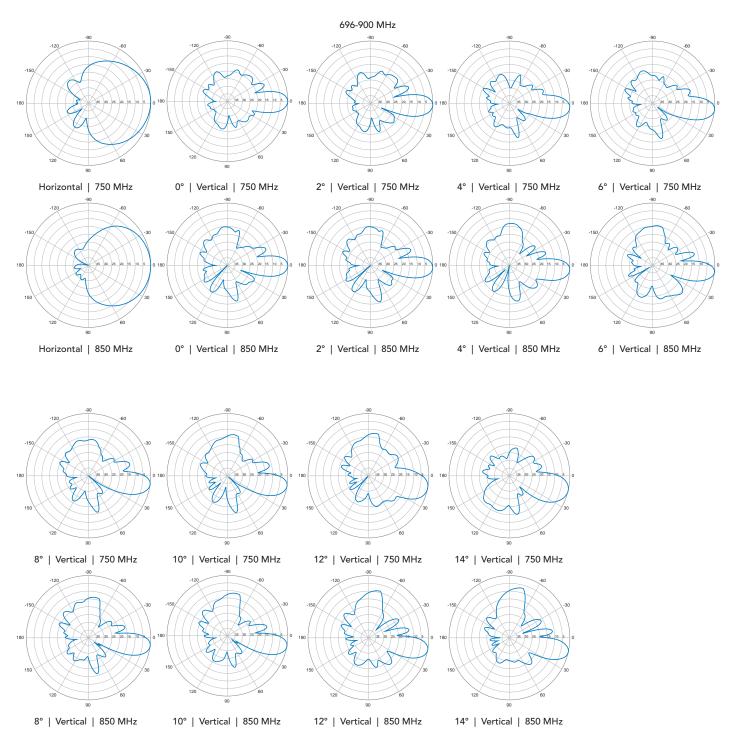
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