

# EXTENT™ P4879

## Tri-Sector Pseudo Omni Outdoor Antenna

[698-960, 1695-2180 MHz]



### DESCRIPTION:

Broadband tri-sector cross-polarized pseudo omni antenna with internal combiners for applications such as outdoor distributed antenna systems (DAS).

### Electrical Specifications

Frequency Band [MHz]	698-806	806-824	824-894	894-960	1695-1785	1785-1990	1990-2180
<b>Polarization</b>	Dual slant 45° (±45°)						
<b>Antenna Structure</b>	Tri-Sector Pseudo Omni						
<b>Input</b>	4 x 4.3-10 DIN (F) or 4 x 7-16 DIN (F) - Bottom						
<b>Impedance</b>	50 Ω						
<b>VSWR</b>	<1.5:1	<1.6:1	<1.5:1	<1.6:1	<1.5:1	<1.5:1	<1.5:1
<b>Gain - Omni Mode**</b>	6.5-7.5 dBi		7.5-8.5 dBi		9.5-10 dBi	10-11 dBi	9.5-11 dBi
<b>In Band Isolation (typ.)</b>	-25 dB						
<b>Inter-Band Isolation (typ.)</b>	-40 dB						
<b>Elevation (±1.5°)</b>	19°		15°		8°	7°	7°
<b>Ripple (dB)</b>	2.5-3.5 dB		3.5-5.5 dB		6.0-9.0 dB	6.5-8.5 dB	4.0-6.5 dB
<b>Downfill</b>	0° fixed						
<b>Azimuth</b>	Omni (360°)						
<b>PIM @ 2 x 43 dBm per Port</b> 4.3-10 DIN / 7-16 DIN	< -153 dBc / < -150 dBc						
<b>Max. Input Power per Port</b>	250 Watts				200 Watts		

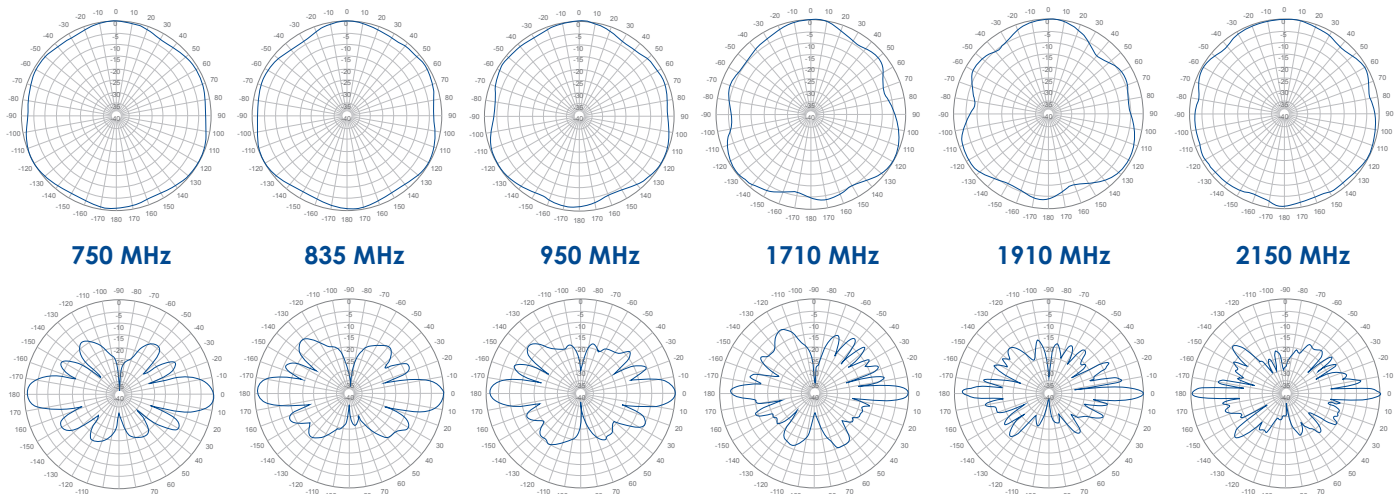
\*\* Omni mode gain includes combiner losses.

### Mechanical Specifications

<b>Operating Temperature</b>	-40 to 158°F (-40 to +70°C)
<b>Antenna Weight</b>	46.3 lbs (21 kg)
<b>Antenna Diameter</b>	14.57" (370mm)
<b>Antenna Height (without connectors)</b>	48.0" (1213 mm)
<b>Radome Color</b>	Utility Gray or Brown
<b>Ingress Protection</b>	IP65 (Outdoor)
<b>Wind Survival Rating / Wind Load</b>	125 mph (200 kph) / 146 lbf (650N)

### GPS Specifications

<b>Frequency Range</b>	1575.42 ±10 MHz
<b>Amplifier Gain</b>	28 dB +/- 3 dB
<b>Polarization</b>	Right Hand Circular
<b>Voltage Range</b>	2.7-5.0 VDC
<b>Current @ 3.3VDC (typ.)</b>	7.5 mA
<b>Connector Type</b>	N-Type (F)



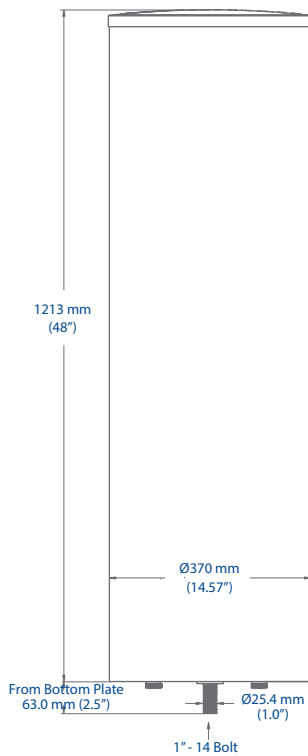
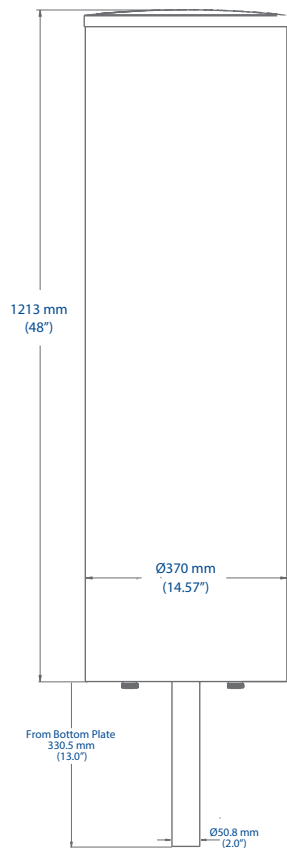
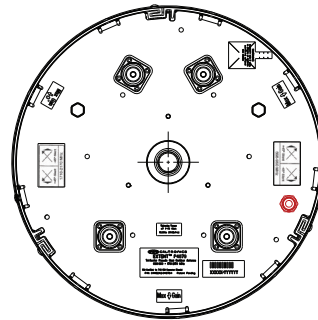
Release Date: 4, June 2015; Revision: J, Patent Pending

**MOUNTING INTERFACE & ANTENNA OPTIONS:**

Antenna P/N	Radome Color	Connector	GPS	Mounting Interface
04119242-04879-1	Gray	7-16 DIN	No	1" Threaded Bolt
04119242-04879-6	Brown	7-16 DIN	No	1" Threaded Bolt
04127242-04879-1	Gray	4.3-10 DIN	No	1" Threaded Bolt
04127242-04879-6	Brown	4.3-10 DIN	No	1" Threaded Bolt
04119242-G4879-1	Gray	7-16 DIN	Yes	1" Threaded Bolt
04119242-G4879-6	Brown	7-16 DIN	Yes	1" Threaded Bolt
04127242-G4879-1	Gray	4.3-10 DIN	Yes	1" Threaded Bolt
04127242-G4879-6	Brown	4.3-10 DIN	Yes	1" Threaded Bolt
04119242-04879	Gray	7-16 DIN	No	13" Center Rod
04119242-04879-5	Brown	7-16 DIN	No	13" Center Rod
04127242-04879	Gray	4.3-10 DIN	No	13" Center Rod
04127242-04879-5	Brown	4.3-10 DIN	No	13" Center Rod
04119242-G4879	Gray	7-16 DIN	Yes	13" Center Rod
04119242-G4879-5	Brown	7-16 DIN	Yes	13" Center Rod
04127242-G4879	Gray	4.3-10 DIN	Yes	13" Center Rod
04127242-G4879-5	Brown	4.3-10 DIN	Yes	13" Center Rod

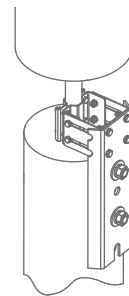
**Optional Mounting Bracket**

62-50-09 Side Mounting Bracket (150 mph)

**MECHANICAL DRAWINGS & MOUNTING INTERFACE OPTIONS :**
**OPTION 1  
1" THREADED BOLT**

**OPTION 2  
13" CENTER ROD**

**OPTION 1 & 2 - Bottom View**

**MOUNTING INFORMATION:**

Option 1:  
The antenna can be mounted using the 1"-14 Bolt. Third party mounting fixtures are available. More information can be provided on inquiry.

Option 2 (see bottom & right):  
The antenna can be mounted on top of an utility pole using the optional Galtronics pole mounting bracket suitable for poles from 6" to 13" diameter.


**Mounting Kit for pole top installations (Option 2)**

Rotate and lock the antenna according to the needs of the network.

Align the antenna to the center of the pole for optimal stability.

