

Stadium Handrail 2x2 MIMO Panel Antenna [1695-2690 MHz]

GP2402-06831



2x2 MIMO 1695-2690 MHz Mini-Panel Directional Antenna

Description:

- Directional MIMO antenna for Indoor or Outdoor Stadium Handrail DAS & Small Cell Applications.
- Narrow Vertical Beamwidth for improved stadium RF pattern control.
- 0°-10° Mechanical Downtilt (MET) Adjustment to optimize coverage.
- Can be installed as-is or inside custom radome.

Electrical Specifications

Frequency Band [MHz]	1695-2180	2300-2400	2496-2690
Input Connector Type	2x 4.3-10 (F) w/ 9.8" pigtails		
VSWR (max.) /RL (min.)	1.5:1/14 dB		
Impedance	50 Ω		
Polarization	Dual Slant 45° (±45°)		
Port-to-Port Isolation (min.)	20 dB		
Horizontal Beamwidth	65°	67°	66°
Vertical Beamwidth	14.9°	11.9°	10.6°
Gain (max.)	14.0 dBi	14.1 dBi	14.2 dBi
Gain (avg.)	13.3 dBi	13.7 dBi	13.5 dBi
Front-To-Back Ratio (180°)	30 dB		
Downtilt	0°-10° MET		
Max Power / Port	100 Watts		
PIM @ 2x43 dBm	<-153 dBc		

Mechanical Specifications

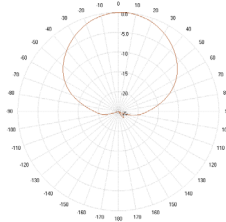
Operating Temperature	-40° to 158°F (-40° to +70°C)
Antenna Weight	5.0 lbs (2.2 Kg)
Antenna Weight with Mounting Kit	7.0 lbs (3.2 Kg)
Antenna Dimension (Height x Width x Depth)	24.0" (610 mm) x 6.3" (160 mm) x 2.0" (51 mm)
Radome Material	ASA, UL94-V0 Compliant
Radome Color	Gray*
Ingress Protection	Indoor/Outdoor (IP65)

* Radome can be painted with recommended paint "Krylon fusion for plastic"

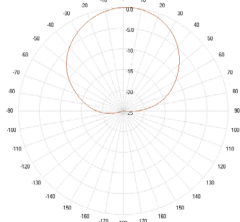
RFD#06831; Revision: R2 ; Release Date: March 10, 2020;

Antenna Patterns

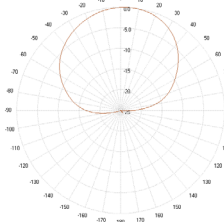
Horizontal



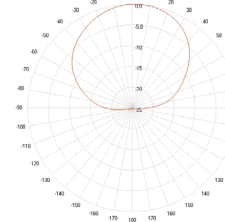
1720 MHz



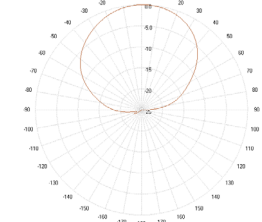
2120 MHz



2325 MHz

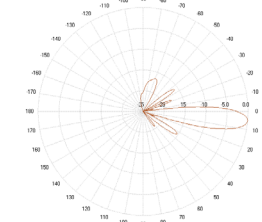
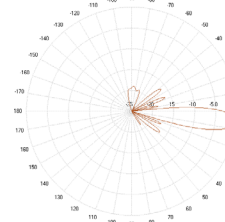
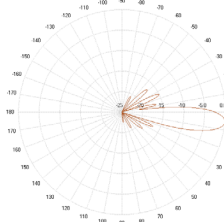
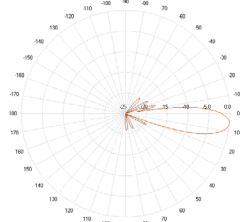
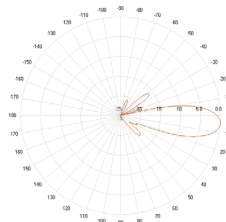


2500 MHz

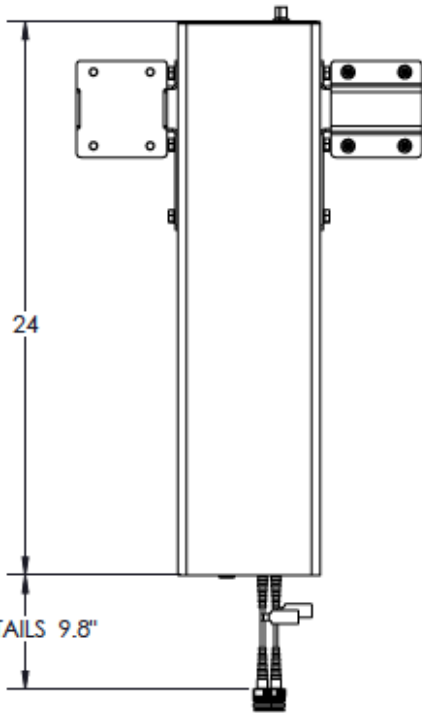
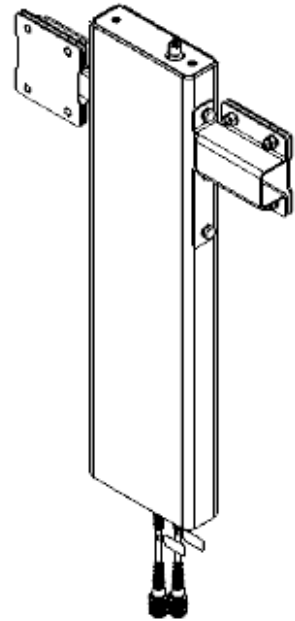
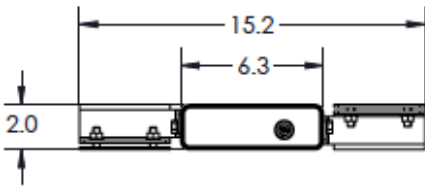


2583 MHz

Vertical

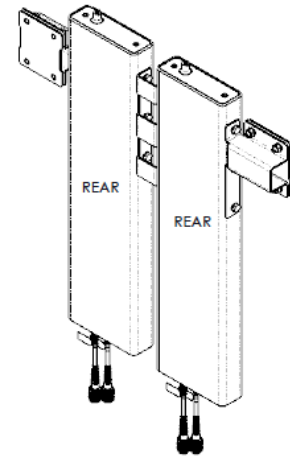
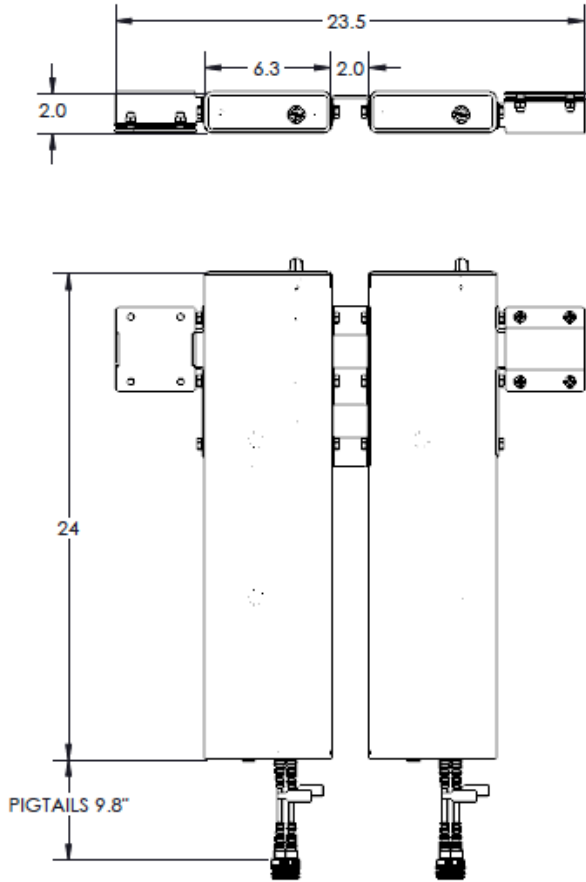


Antenna Outline

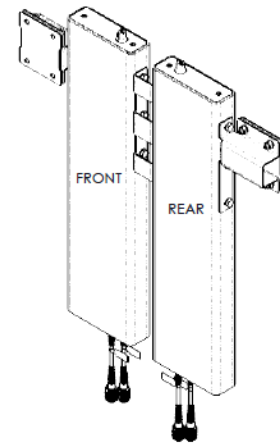


Mating Connector Torque:
4.3-10: 3.7 ft-lb (5 Nm)

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4x4 MIMO with two antennas (facing same direction)



2x2 MIMO with two antennas (facing opposite direction)



0°-10° MET Adjustment Knob Detail (top of panel)

Part Numbers, Ordering Options and Accessories

Description:	Part Number:
Antenna with 2x 4.3-10 DIN (F) connectors with 2x MK-07065 and 1x MK-07066 to mount two antenna together	GP2402-06831-112
Side mount rail bracket (OPTIONAL)	 MK-07065 (Sold Separately)
Bridging side by side brackets (OPTIONAL)	 MK-07066 (Sold Separately)

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