



FPL pro 800 MHz

Multi-Port 800 MHz, Wi-Fi 6E/7 & GNSS Vehicular Antennas

FPL pro antennas offer a compact and high performance antenna solution for vehicular applications.

Designed as an all-in-one solution for 800 MHz gateways and radios, FPL pro antennas offer combinations of 800 MHz (760-870 MHz), Wi-Fi 6E/7 and GNSS from a single antenna.

Permanent mount and magnetic mount options allow customers a range of choices to suit their needs.

FEATURES AND BENEFITS

- Permanent and magnetic mount variants available
- Extensive mechanical and environmental testing/ compliance including IP67, IP69K IP rating
- Compact multi-port vehicular antenna
- 800 MHz, Wi-Fi 6E/7 and GNSS in a single antenna

ELECTRICAL SPECIFICATION - PERMANENT MOUNT

Port	Wi-Fi			800 MHz	GNSS
Operating Frequency (MHz)	2400 - 2500 MHz	4900 - 6000 MHz	6000 - 7125 MHz	760 - 870 MHz	1559 - 1606 MHz
VSWR - Max	<1.3:1	<1.3:1	<1.6:1	<2.5:1	<2.0:1
Gain - Max (dBi)	6.7	8.6		3.3	36 (Active)
Efficiency %	67	62		57	-

ELECTRICAL SPECIFICATION - MAGNETIC MOUNT

Port	Wi-Fi			800 MHz	GNSS
Operating Frequency (MHz)	2400 - 2500 MHz	4900 - 6000 MHz	6000 - 7125 MHz	760 - 870 MHz	1559 - 1606 MHz
VSWR - Max	<1.4:1	<1.3:1	<1.6:1	<2.0:1	<2.0:1
Gain - Max (dBi)	7.9	9.4		5.1	36 (Active)
Efficiency, %	74	59		64	-

COMMON SPECIFICATIONS

Power Input - Max (W)	10			30	-
Port-to-port Isolation (dB)	GNSS - 800 MHz > 47 GNSS - WI-FI > 20				
Impedance (Ohms)	50				
Azimuth Beamwidth	Omnidirectional				
Polarization	Linear Vertical				

ELECTRICAL SPECIFICATION - GNSS*

Frequency	1559-1607	
LNA Gain (dB)	28 ± 3	
Noise Figure @ room temp. (dB)	< 2.5 @ 1575 MHz	
VSWR Max	<2.0:1	
Polarization	RHCP	
Nominal Impedance (ohm)	50	
Operating Supply Voltage (Vdc)	2.5 - 7.0	
Current Consumption, Max @ room temp. (mA)	8.5 ± 3 @ 3.0V	
Input Max Power @ DC 3V (dBm)	+10	
Out-of-Band Rejection (dBc)	698-960	>80
	1428-1511	>80
	1710-2700	>80
	4900-5800	>70
Cable Type	RG174	

* Measured with 5m RG174 cable

MECHANICAL SPECIFICATION

Dimensions - length x width x height - mm (in.)	Magnet Mount 138.2 x 68.3 x 45.6 (5.44 x 2.69 x 1.80) Permanent Mount 139.2 x 69.2 x 48.6 (5.48 x 2.72 x 1.91)
Weight - kg (lbs.)	Varies by model. See table on page 9
Radome	Polycarbonate (PC)
Flammability Rating	UL94-V0
Ingress Protection (Water & Dust)	IP67, IP69K
Humidity	MIL-STD-810G, 507.5, Procedure II, Aggravated Humidity
Vibration	MIL-STD-810G, Method 514.6, Category 4, Highway Truck Vibration
Mechanical Shock	IEC 60068-2-27, Secured Cross Country Vehicles
Drop Test	Drop freely from a height of 1 meter to hard surface
Cable Pull Test	20lb Pull on connector/cable for a duration of 30 seconds
Magnet Pull Test	Min. 40lbs for vertical pull / Min. 40lbs for side pull
Mounting	Magnet / Permanent Stud

ENVIRONMENTAL SPECIFICATION

Operating Temperature - °C (°F)	-30 to +70 (-22 to +158)
Storage Temperature - °C (°F)	-40 to +85 (-40 to +185)
Thermal Shock	IEC 68-2-14; -25°C to +70°C
Salt Fog/Mist	MIL-STD-810G, Method 509.5
Wind Operational / Survival - mph (kph)	100 (160) / 136 (220)
Material Substance Compliance	RED, ROHS, UKCA & CE Compliant

PERMANENT MOUNT CONFIGURATIONS

PART NUMBER	CABLE LENGTH	CONNECTOR
L000573-08	Wi-Fi - LMR195-type - 5m / 16ft 800 MHz - LMR195-type - 5m / 16ft GNSS - RG174 - 5m / 16ft	Wi-Fi - SMA Male 800 MHz - BNC Male GNSS - SMA Male
L000573-09	800 MHz - LMR195-type - 5m / 16ft GNSS - RG174 - 5m / 16ft	800 MHz - BNC Male GNSS - SMA Male

MAGNETIC MOUNT CONFIGURATIONS

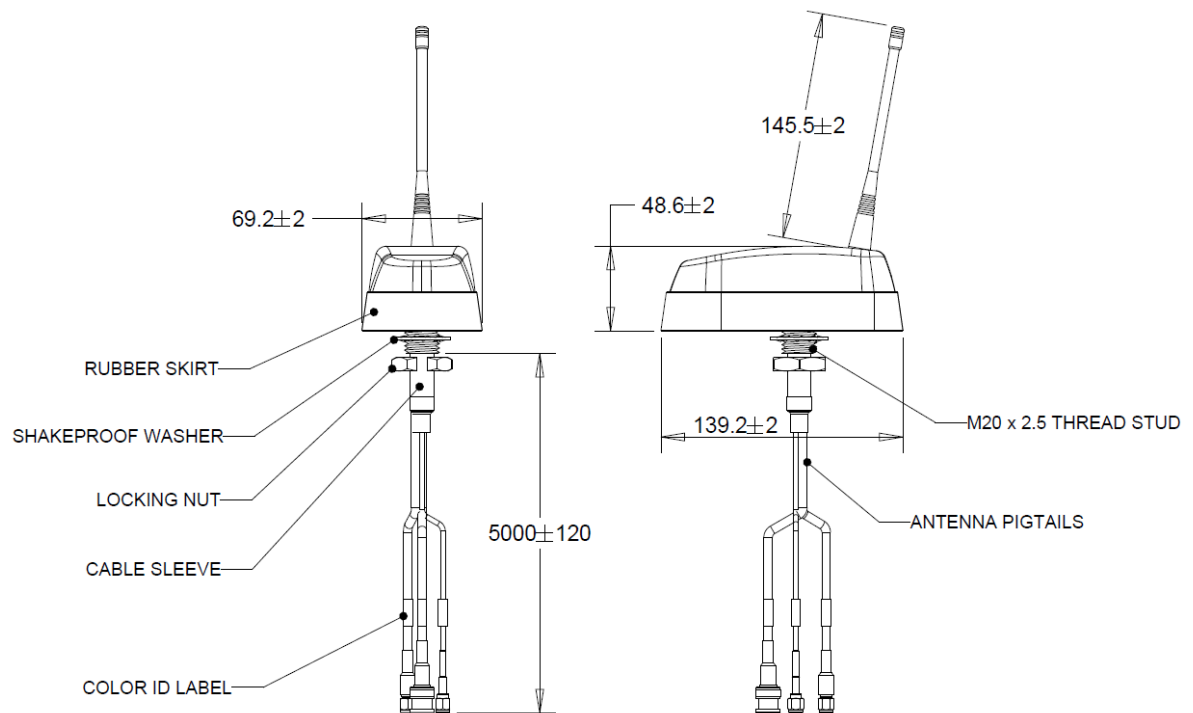
PART NUMBER	CABLE LENGTH	CONNECTOR
L000574-08	Wi-Fi - LMR195-type - 5m / 16ft 800 MHz - LMR195-type - 5m / 16ft GNSS - RG174 - 5m / 16ft	Wi-Fi - SMA Male 800 MHz - BNC Male GNSS - SMA Male

POPULAR 800 MHZ RADIO/GATEWAY CONFIGURATIONS

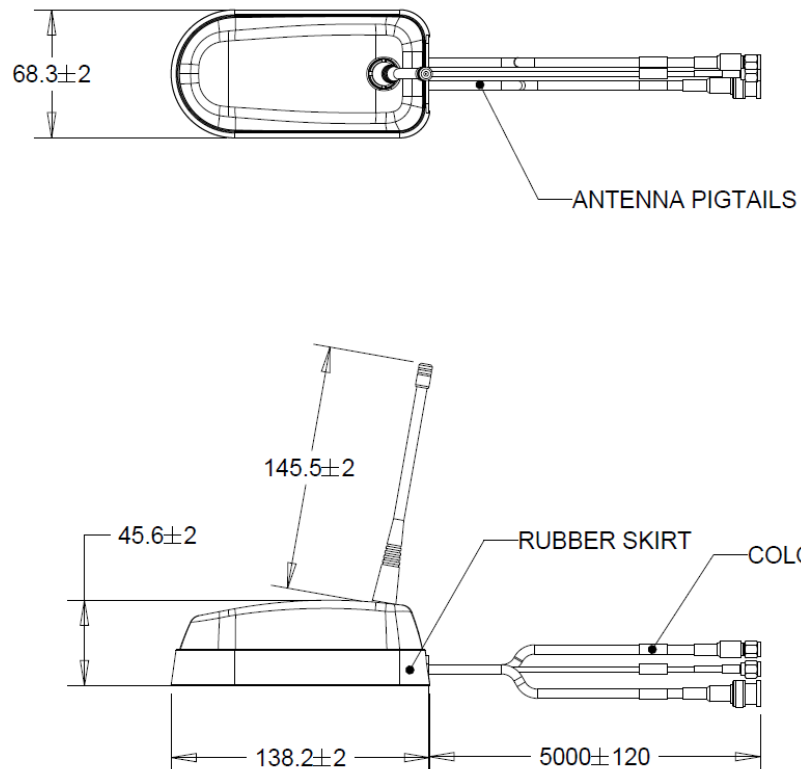
Radio Part Number	TE Permanent Mount P/N	TE Magnetic Mount P/N
Airbus TMR Series	L000573-08	Contact TE For Details
Hytera MD Series	L000573-08 L000573-09	Contact TE For Details
Motorola MTM Series	L000573-08	Contact TE For Details
Sepura SCG22	L000573-09	Contact TE For Details

MECHANICAL DRAWINGS

PERMANENT MOUNT

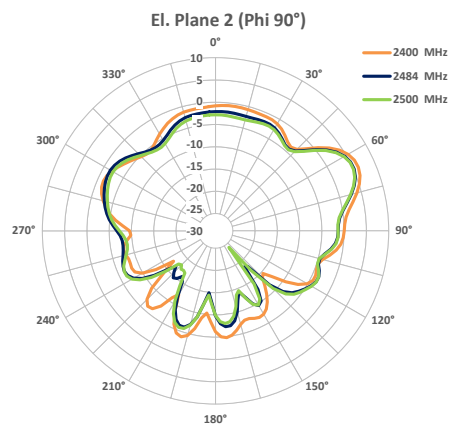
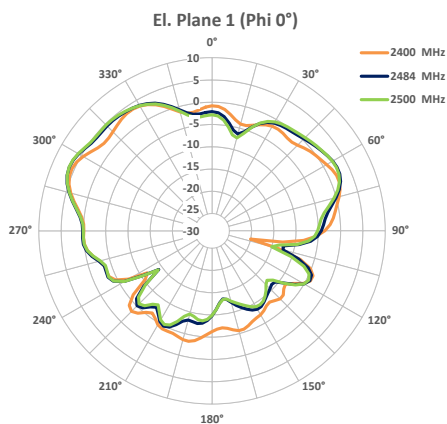
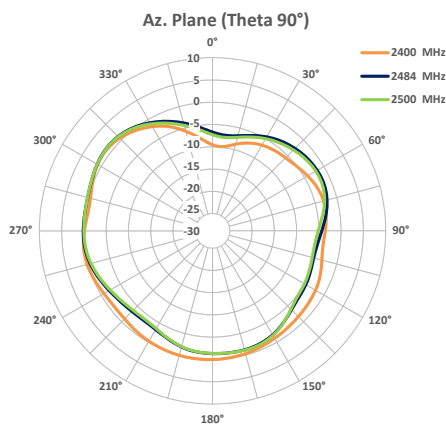


MAGNETIC MOUNT

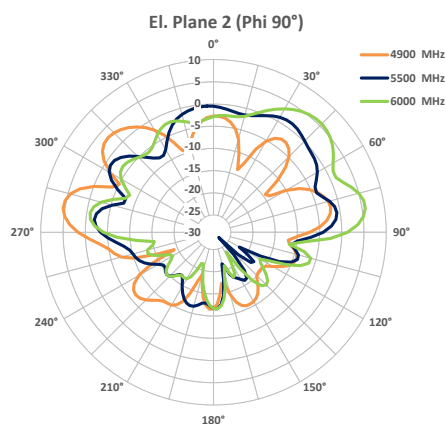
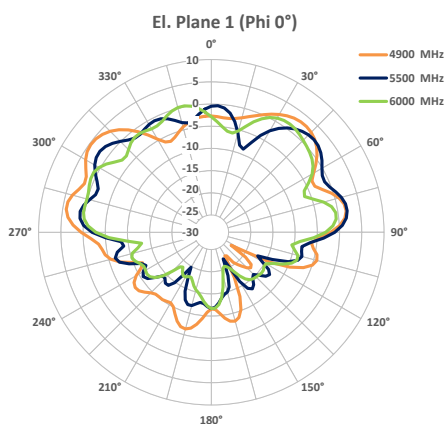
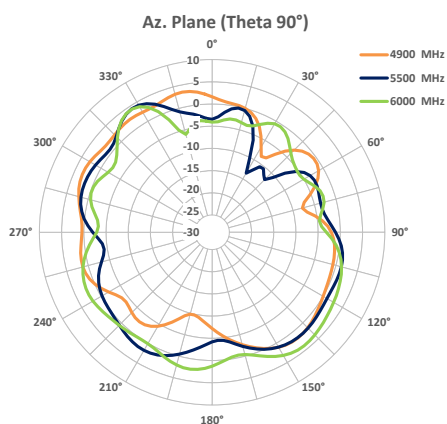


RADIATION PATTERNS - PERMANENT MOUNT - WI-FI

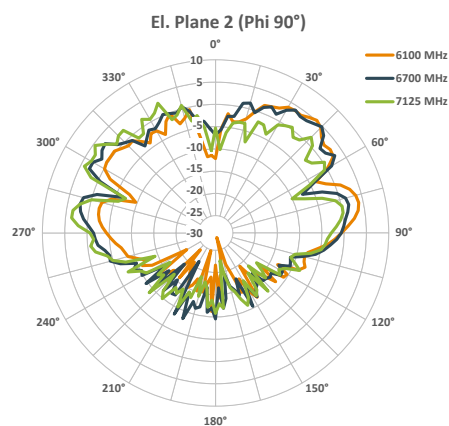
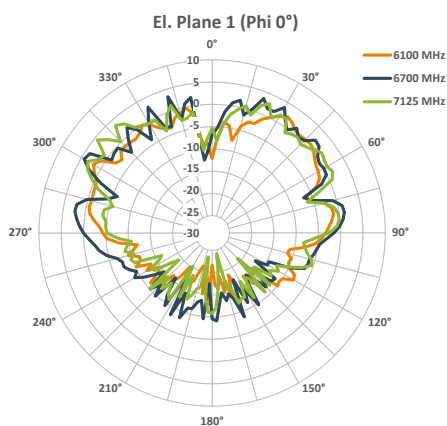
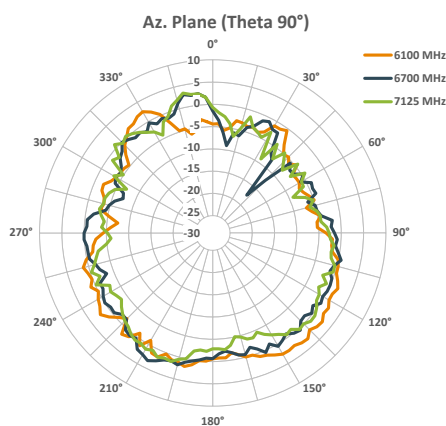
2400 - 2500 MHz



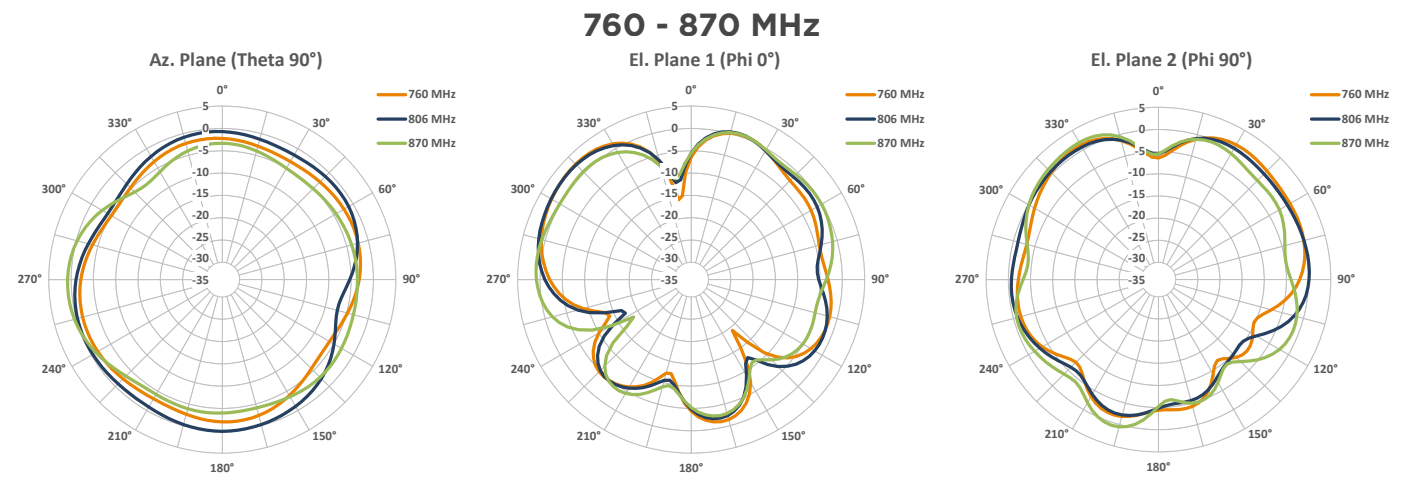
4900 - 6000 MHz



6000 - 7125 MHz

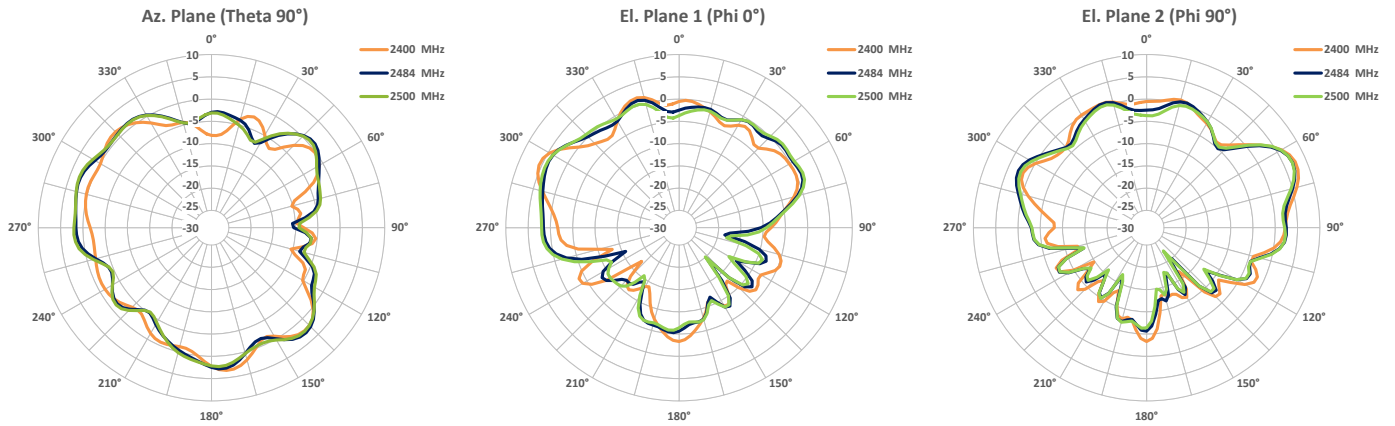


RADIATION PATTERNS - PERMANENT MOUNT - 800 MHZ

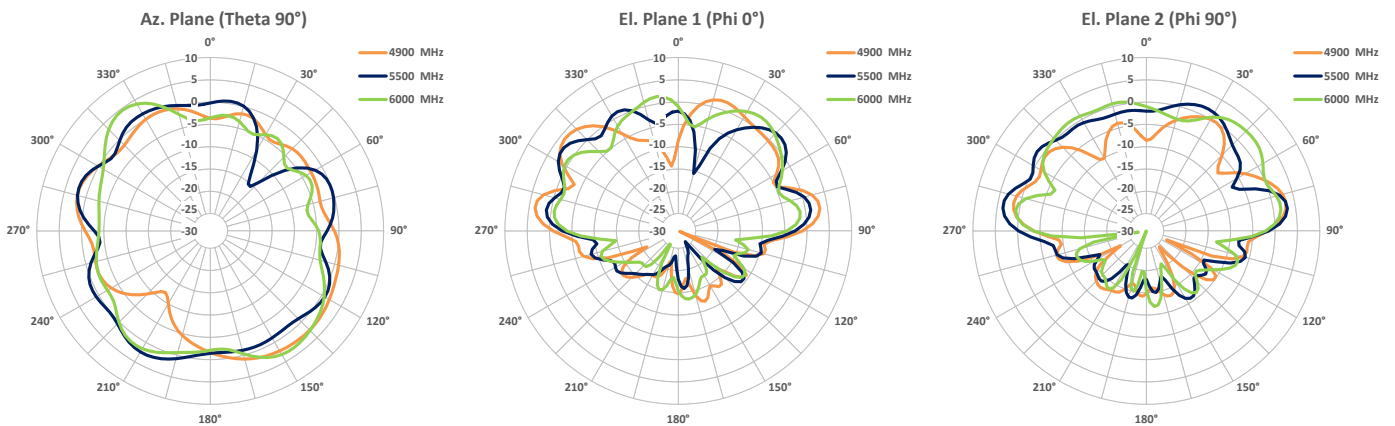


RADIATION PATTERNS - MAGNETIC MOUNT - WI-FI

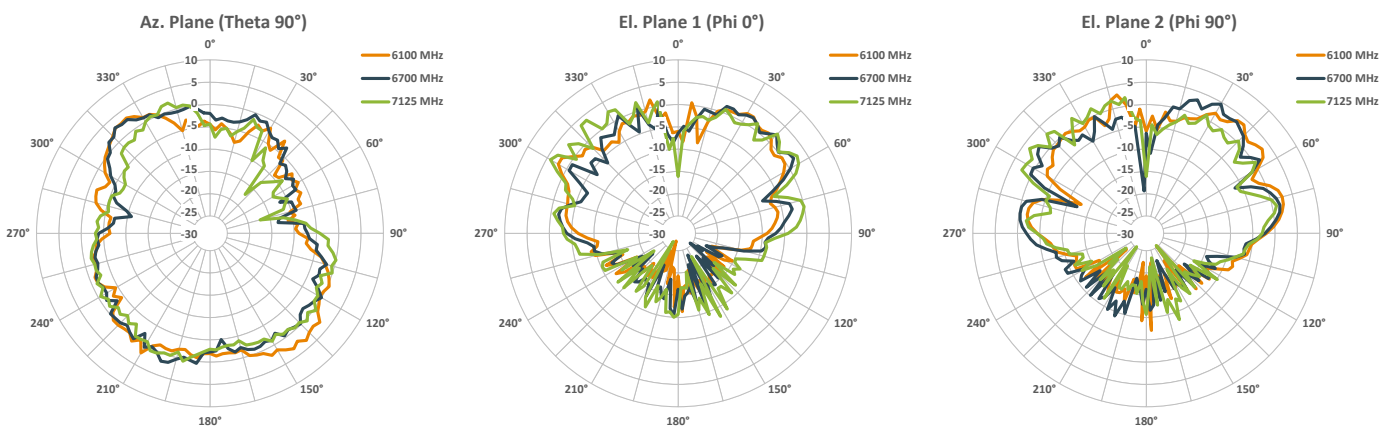
2400 - 2500 MHz



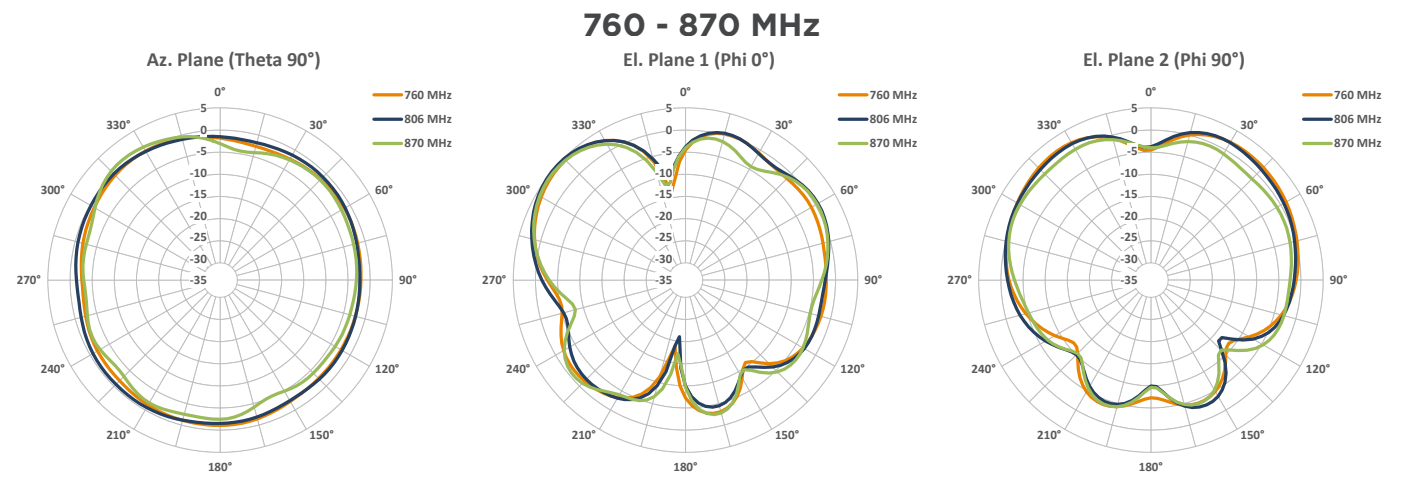
4900 - 6000 MHz



6000 - 7125 MHz

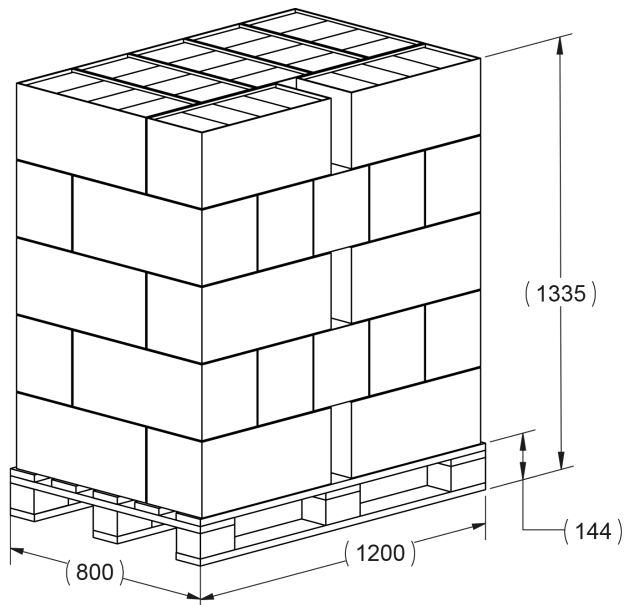


RADIATION PATTERNS - MAGNETIC MOUNT - 800 MHZ

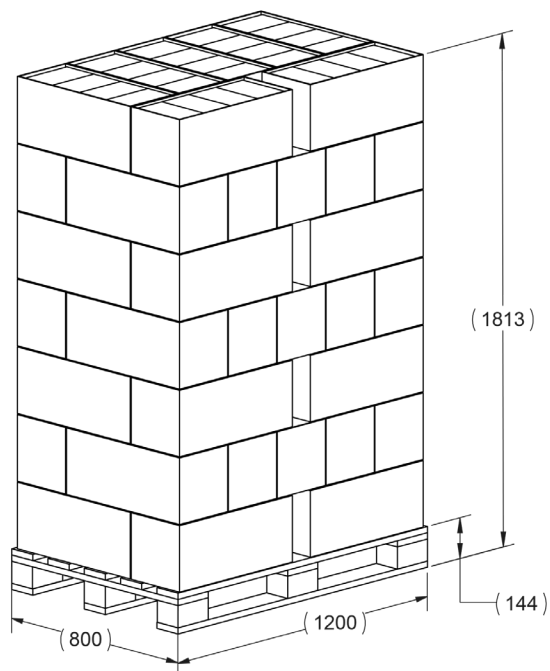


PACKAGING

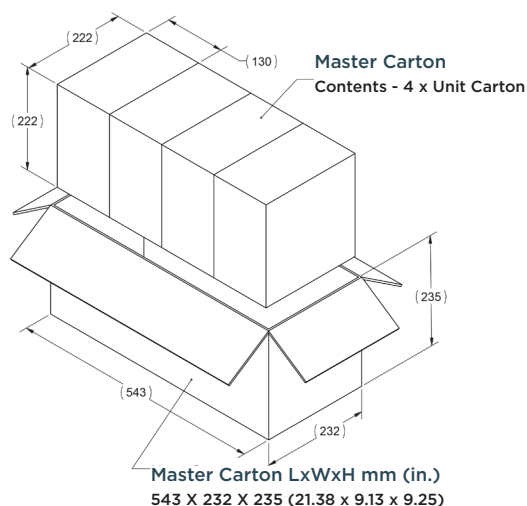
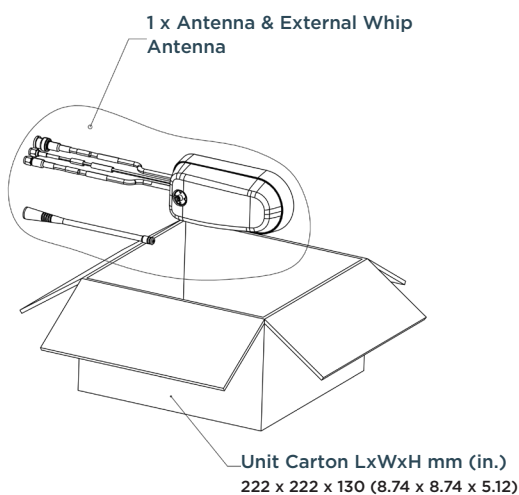
Air Pallet



Ocean Pallet



Unit & Master Carton



PACKAGED DIMENSIONS	Unit Carton	MASTER CARTON	AIR PALLET	OCEAN PALLET
Number of Antennas	1	4	140	196
Height mm (in)	130 (5.12)	235 (9.25)	1335 (52.56)	1813 (71.38)
Length mm (in)	222 (8.74)	543 (21.38)	1200 (47.24)	1200 (47.24)
Width mm (in)	222 (8.74)	232 (9.13)	800 (31.50)	800 (31.50)
Magnetic Mount 2-Port Models Est. Shipping Weight kg (lbs.)	0.90 (1.98)	4.2 (9.26)	164 (361.56)	223 (491.63)
Magnetic Mount 3-Port Models Est. Shipping Weight kg (lbs.)	1.05 (2.32)	4.8 (10.58)	185 (407.86)	253 (557.77)
Permanent Mount 2-Port Models Est. Shipping Weight kg (lbs.)	0.85 (1.87)	4.0 (8.82)	157 (346.13)	213 (469.59)
Permanent Mount 3-Port Models Est. Shipping Weight kg (lbs.)	1.0 (2.20)	4.6 (10.14)	178 (392.42)	243 (535.72)

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