Low Profile Wall Mount DAS Antenna

PIM160-IPS

The PIM160-IPS is a multi-band directional panel antenna with ultra-low PIM (@ 2x43 dBm) for indoor wall mount installations. The antenna is designed to operate within the frequency ranges of 698-960 MHz and 1710-2700 MHz, providing optimized pattern coverage for indoor DAS applications.

Features

- Ultra low PIM (@ 2x43 dBm)
- 4.1-9.5 Mini DIN, 4.3-10 or N Female connector options for Carrier Network compliance
- Multiband coverage with low VSWR performance
- Aesthetically pleasing, low profile housing
- Includes wall mount hardware for installation ease
- UL 94-V0 listed materials and Plenum rated cable for compliance to strict building safety code specifications

STANDARD CONFIGURATION

Model	Cable	Connector	Mounting Method	Radome
PIM160-IPS-4.1 PIM160-IPS-4.3 PIM160-IPS-NF	7.87-inch (200mm) R670-141 SXE Plenum	4.1-9.5 Mini DIN (Female) 4.3-10 (Female) N Female	Wall mount. Includes hanging plate assembly with self-tapping screws and extension pipe hardware.	White, UV resistant ABS plastic

ELECTRICAL SPECIFICATIONS

Model	Frequency Range	Gain	Azimuth Half Power Beamwidth	Elevation Half Power Beamwidth	VSWR
PIM160-IPS-4.1	698-800 MHz	≥ 5.5 dBi	100 ± 5°	85 ± 10°	≤ 1.8
PIM160-IPS-4.3	800-960 MHz	≥ 5.5 dBi	95 ± 5°	85 ± 10°	≤ 1.6
PIM160-IPS-NF	1710-2200 MHz	≥ 7 dBi	60 ± 5°	60 ± 10°	≤ 1.5
	2200-2700 MHz	≥ 7 dBi	55 ± 5°	50 ± 10°	≤ 1.5

ELECTRICAL SPECIFICATIONS, continued

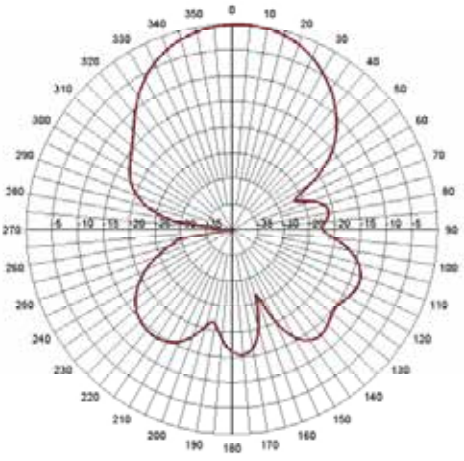
Model	Power Handling	Nominal Impedance	Polarization	Front to Back Ratio	PIM
PIM160-IPS-4.1 PIM160-IPS-4.3 PIM160-IPS-NF	50 watts (maximum)	50 ohms	Vertical	@ 698-960 MHz: ≥ 15 @ 1710-2700 MHz: ≥ 20	≤ 160 dBc

MECHANICAL & ENVIRONMENTAL SPECIFICATIONS

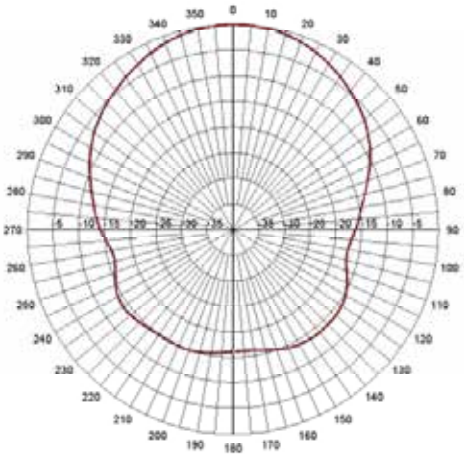
Model	Dimensions	Weight	Temperature Range	Relative Humidity
PIM160-IPS-4.1 PIM160-IPS-4.3 PIM160-IPS-NF	8.1" L x 6.9" W x 1.6" H	0.3 kg	-40°C to +80°C (Storage) -40°C to +70°C (Operating)	0%-100%

Radiation Patterns

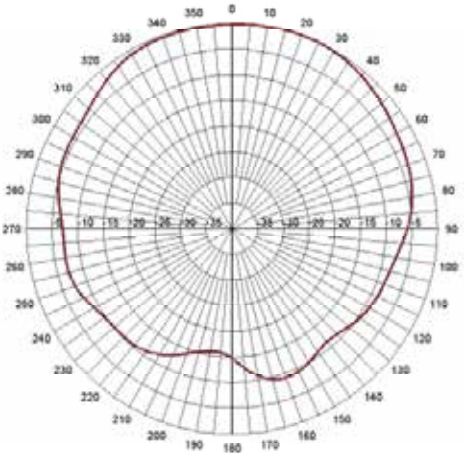
High Band E-Plane Pattern



High Band H-Plane Pattern



Low Band E-Plane Pattern



Low Band H-Plane Pattern