

PowerBeam 5AC Gen 2

Model: PBE-5AC-GEN2 | High-Performance 5 GHz airMAX® ac Bridge

25 dBi

ANTENNA GAIN

450+ Mbps

REAL THROUGHPUT

25+ km

RANGE CAPABILITY

5 GHz

FREQUENCY BAND

Product Overview: The PowerBeam® 5AC Gen 2 directs RF energy in a tighter beamwidth, focusing energy in one direction to block or spatially filter out noise in high-density wireless environments. Featuring airMAX ac technology and dedicated Wi-Fi management, it is ideal for long-distance Point-to-Point (PtP) links or Point-to-Multipoint (PtMP) CPE deployments.

Key Architectural Features

InnerFeed® Technology

Integrates the radio directly into the feedhorn of the dish antenna, eliminating coaxial cable loss and improving RF efficiency.

Dedicated Management Radio

Integrates a separate 2.4 GHz Wi-Fi radio for fast, convenient setup and configuration via the UNMS / UISP mobile app.

Noise Immunity & Directivity

High spatial directivity provides peak beam performance, isolating signals in RF-congested environments.

Enhanced Surge Protection

Upgraded ESD/EMP protection defends against environmental atmospheric discharges up to ±24kV.

System & Hardware Specifications

HARDWARE ARCHITECTURE	
Processor	MIPS 74Kc
Memory	64 MB DDR2
Networking Interface	(1) 10/100/1000 Mbps Ethernet Port (RJ45)
Management Radio	Dedicated 2.4 GHz Wi-Fi Radio for UISP App Setup
LED Indicators	Power, Ethernet, (4) Wireless Signal Strength LEDs

Wireless & Operating Specifications

RF & PERFORMANCE	
Operating Frequency	5150 – 5875 MHz (Worldwide)
Antenna Gain	25 dBi
Max Output Power	24 dBm

RF & PERFORMANCE	
TCP/IP Throughput	450+ Mbps
PtP Channel Widths	10 / 20 / 30 / 40 / 50 / 60 / 80 MHz
PtMP Channel Widths	10 / 20 / 30 / 40 MHz

Power, Mechanical & Environmental

ELECTRICAL & PHYSICAL PROPERTIES	
Power Method	Passive Power over Ethernet (Pairs 4, 5+; 7, 8 Return)
Power Supply	24V, 0.5A Gigabit PoE Adapter (Included)
Max Power Consumption	8.5W
Supported Voltage Range	20 – 26V DC
ESD/EMP Protection	Air: ±24 kV, Contact: ±24 kV
Dimensions	420 x 420 x 230 mm (16.54 x 16.54 x 9.06 in)
Weight	2.22 kg (4.89 lbs)
Mounting	Pole-mount kit included with ±20° mechanical tilt adjustment
Wind Loading & Survival	380 N @ 200 km/h (85.4 lbf @ 125 mph) Survivability: 200 km/h
Operating Temperature	-40°C to 70°C (-40°F to 158°F) 5 to 95% non-condensing