

GigaBeam

The GigaBeam™ is an airMAX® 60 GHz radio designed for low-interference and high-throughput connectivity of up to 1+ Gbps. For the 60 GHz link, the GigaBeam supports full bandwidth use of 2.16 GHz and includes a 5 GHz radio for failover. The dedicated management radio allows easy setup via Wi-Fi.



GigaBeam™

Mechanical

Dimensions Ø140 x 44 mm (Ø5.5 x 1.7")

Weight 376 g (13.3 oz)

Enclosure Characteristics UV Resistant Polycarbonate

Hardware

Processor Quad-Core ARM Cortex A7

Memory 256 MB DDR3

Networking Interface 10/100/1000 Mbps Ethernet RJ45

RF Connections Internal

LEDs Power/Ethernet/5G/60G

Max. Power Consumption 11W

Power Method Passive PoE (Pairs 4, 5+; 7, 8-)

Power Supply 24VDC, 0.5A Gigabit PoE Adapter

Supported Voltage Range 24V \pm 10% (22 - 26VDC)

ESD/EMP Protection Air/Contact: \pm 24kV

Operating Temperature -40 to 60° C (-40 to 140° F)

Operating Humidity 5 - 95% Noncondensing

Certifications FCC, IC, CE

Software

OS airOS®

Operating Modes PtP, PtMP (Future Firmware Upgrade)

Ubiquiti Specific Features	Integrated 60 GHz and 5 GHz Radios, Discovery Protocol
Security	WPA2 AES Only
Dashboard	Yes
Wireless Settings	Yes
Network Settings	Yes
System	Yes
Services	UNMS, Ping Watchdog, Web Server, SSH Server, NTP Client, System Log, Device Discovery
Tools	Antenna Alignment Tool, Discovery Utility, Traceroute, Speed Test
Minimum Software Requirements	Any Modern Web Browser

Radio Sensitivity airMAX AC

5 GHz TX Specifications

Data Rate	Avg Power (dBm)	Tolerance (dB)
1x BPSK ($\frac{1}{2}$)	25	± 2
2x QPSK ($\frac{1}{2}$)	25	± 2
2x QPSK ($\frac{3}{4}$)	25	± 2
4x 16QAM ($\frac{1}{2}$)	25	± 2
4x 16QAM ($\frac{3}{4}$)	25	± 2
6x 64QAM ($\frac{2}{3}$)	24	± 2
6x 64QAM ($\frac{3}{4}$)	22	± 2
6x 64QAM ($\frac{5}{6}$)	22	± 2
8x 256QAM ($\frac{3}{4}$)	21	± 2
8x 256QAM ($\frac{5}{6}$)	21	± 2

5 GHz RX Specifications

Data Rate	Avg Power (dBm)	Tolerance (dB)
1x BPSK ($\frac{1}{2}$)	-95	± 2
2x QPSK ($\frac{1}{2}$)	-95	± 2
2x QPSK ($\frac{3}{4}$)	-93	± 2
4x 16QAM ($\frac{1}{2}$)	-90	± 2
4x 16QAM ($\frac{3}{4}$)	-86	± 2
6x 64QAM ($\frac{2}{3}$)	-83	± 2
6x 64QAM ($\frac{3}{4}$)	-77	± 2
6x 64QAM ($\frac{5}{6}$)	-74	± 2
8x 256QAM ($\frac{3}{4}$)	-69	± 2
8x 256QAM ($\frac{5}{6}$)	-66	± 2



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