

Ubiquiti LBE-M5-23 DATASHEET

OVERVIEW

The airMAX LiteBeam M5 (LBE-M5-23) is a compact and lightweight outdoor wireless broadband CPE designed for long-distance wireless bridging. Operating in the 5 GHz frequency band, it combines proprietary hardware and software technologies to deliver high throughput speeds of over 100 Mbps while supporting extended ranges of more than 30 kilometers. Featuring an integrated 23 dBi antenna with InnerFeed technology and a robust airMAX TDMA protocol, it ensures low latency, scalable, and interference-resistant network performance. Its versatile ball joint mounting system allows easy and precise installation, making it an ideal cost-effective solution for point-to-point and point-to-multipoint wireless networking deployments.

QUICK SPEC

FIGURE 1: APPEARANCE OF LBE-M5-23



TABLE 1: QUICK SPECS OF LBE-M5-23

SKU	LBE-M5-23
Description	Lightweight, compact outdoor wireless broadband CPE optimized for long-range point-to-point bridging in the 5 GHz band.
Dimensions	362 x 267 x 184 mm (14.25 x 10.5 x 7.2")
Weight	750 g (1.7 lb)

Product Details

FIGURE 2: FRONT PANEL OF LBE-M5-23



FIGURE 3: BACK PANEL OF LBE-M5-23



LBE-M5-23 provides these features

1. Mechanical Design and Mounting

The LiteBeam M5 features a compact and lightweight form factor with dimensions of 362 x 267 x 184 mm and a weight of just 750 grams. It includes a pole mounting kit with a unique ball joint system providing three-axis adjustment flexibility for precise antenna alignment, making installation quick and tool-free.

2. Antenna and RF Performance

The device integrates a high-gain 23 dBi directional antenna coupled with InnerFeed technology, which consolidates the entire radio and antenna system into a streamlined unit. Operating in the worldwide 5 GHz frequency band, it delivers strong signal strength for long-range links up to 30+ km, supporting throughput of 100+ Mbps in real outdoor scenarios.

3.Power and Hardware

The LiteBeam maintains low power consumption of 7W maximum powered by a 24V 0.2A passive PoE adapter. It includes a single 10/100 Mbps Ethernet interface for data and power over Ethernet, ensuring easy and flexible deployment without additional cabling complexities.

4.airMAX TDMA Technology

Ubiquiti’s proprietary airMAX TDMA protocol improves network performance by assigning time slots for each client to transmit, effectively eliminating hidden node collisions. This technology maximizes airtime efficiency, reducing latency and increasing throughput and scalability in point-to-point and point-to-multipoint deployments.

5.Environmental and Reliability:

It is designed for harsh outdoor environments that operates reliably within an ambient temperature range from -40°C to 70°C and humidity levels of 5 to 95% non-condensing. It meets ETSI shock and vibration standards and offers robust ESD/EMP protection up to ±24kV, ensuring durability in demanding conditions.

6.Processor and Memory

This device runs on a powerful Atheros MIPS 74Kc 533 MHz processor supported by 64 MB of memory, providing smooth execution of network applications and efficient management of wireless traffic.

7.Certifications and Compliance:

The LiteBeam M5 is certified under FCC, IC, and CE regulations and complies with RoHS and NDAA standards, ensuring it meets global environmental, safety, and procurement requirements for professional deployments.

SPECIFICATIONS

LBE-M5-23 SPECIFICATION	
Model	LBE-M5-23
Dimensions	362 x 267 x 184 mm (14.25 x 10.5 x 7.2")
Weight	750 g (1.7 lb)
Mounting	Pole mounting (Kit included)
Networking interface	(1) 10/100 MbE RJ45 port
Power method	Passive PoE 2-pair (4, 5+; 7, 8 return)
Power supply	24V, 0.2A PoE adapter (Included)
Supported voltage range	22-27V DC
Max. power consumption	7W
ESD/EMP protection	Air/contact ± 24kV
ETSI specification	EN 302 326 DN2
Shock and vibration	ETSI300-019-1.4
RoHS compliance	Yes

Ambient operating temperature	-40 to 70° C [-40 to 158° F]
Ambient operating humidity	5 to 95% noncondensing
Certifications	FCC, IC, CE
NDAA Compliant	Yes
Operating frequency	Worldwide: 5150 - 5875 MHz USA: 5725 - 5850 MHz
Output power	25 dBm
Gain	23 dBi
Max. VSWR	1.5:1

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With Global Leading
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