### Datasheet





# LiteBeam<sup>®</sup> AC GEN2

airMAX® ac CPE with Dedicated Management Radio

Model: LBE-5AC-Gen2, LBE-5AC-LR

Lightweight, Low-Cost Solution

Full Adjustment Flexibility

Quick Assembly and Installation



### Overview

Ubiquiti Networks launches the latest generation of airMAX<sup>®</sup> CPE (Customer Premises Equipment), the LiteBeam<sup>®</sup> 5AC Gen 2, with dedicated Wi-Fi management.

### Improved Noise Immunity

The LiteBeam 5AC Gen 2 directs RF energy in a tighter beamwidth. With the focus in one direction, the LiteBeam 5AC Gen 2 blocks or spatially filters out noise, so noise immunity is improved. This feature is especially important in an area crowded with other RF signals of the same or similar frequency.

#### **Innovative Design**

Ubiquiti's InnerFeed® technology integrates the radio into the feedhorn of an antenna, so there is no need for a cable. This improves performance because it eliminates cable losses.

Featuring high performance and innovative mechanical design, the LiteBeam 5AC Gen 2 is versatile and cost-effective to deploy.

### Software airOS<sup>°</sup>8

airOS® v8 is the revolutionary operating system for Ubiquiti® airMAX ac products.

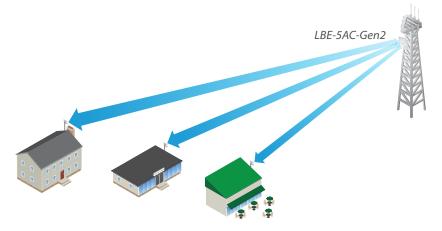
### **Powerful Wireless Features**

- Access Point PtMP airMAX Mixed Mode
- airMAX ac Protocol Support
- Long-Range Point-to-Point (PtP) Link Mode
- Selectable Channel Width
  - PtP: 10/20/30/40/50/60/80 MHz
- PtMP: 10/20/30/40 MHz
- Automatic Channel Selection
- Transmit Power Control: Automatic/Manual
- Automatic Distance Selection (ACK Timing)
- Strongest WPA2 Security

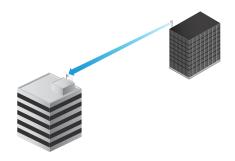
### **Usability Enhancements**

- airMagic<sup>®</sup> Channel Selection Tool
- Redesigned User Interface
- Dynamic Configuration Changes
- Instant Input Validation
- HTML5 Technology
- Optimization for Mobile Devices
- Detailed Device Statistics
- Comprehensive Array of Diagnostic Tools, including RF Diagnostics and airView<sup>®</sup> Spectrum Analyzer

### **Application Examples**



LiteBeam as a cost-effective WISP deployment in an airMAX ac Point-to-MultiPoint network.





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# **UNMS** App

The LiteBeam 5AC Gen 2 integrates a separate Wi-Fi radio for fast and easy setup using your mobile device.

### Accessing airOS via Wi-Fi

The UNMS<sup>™</sup> app provides instant accessibility to the airOS configuration interface and can be downloaded from the App Store (iOS) or Google Play<sup>™</sup> (Android). UNMS allows you to set up, configure, and manage the LiteBeam 5AC Gen 2. It offers the following options once you're connected or logged in to the device:

**Status** Check link status information or the basic configuration settings of the LiteBeam 5AC Gen 2.

**Configuration** Change or update the existing configuration of the LiteBeam 5AC Gen 2.

**Tools** Access tools for initial installation and configuration of the LiteBeam 5AC Gen 2.

Actions Back up or update the configuration, upload new firmware, reboot the device, reset the device to factory defaults, access the airOS UI in the web browser, or disconnect from the LiteBeam 5AC Gen 2.

### Models

The LiteBeam 5AC Gen 2 offers quick and easy alignment and enhanced protection against power surges. There are two models available:

# LiteBeam<sup>®</sup> AC GEN2

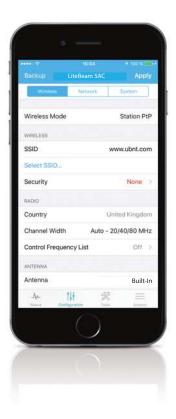
### Model: LBE-5AC-Gen2

The LBE-5AC-Gen2 features a robust mount with separate azimuth and elevation adjustments.



#### Model: LBE-5AC-LR

Designed for long-range applications, the LBE-5AC-LR features a larger reflector size and elevation adjustment (azimuth is adjusted by rotation around the pole).





# **Specifications**

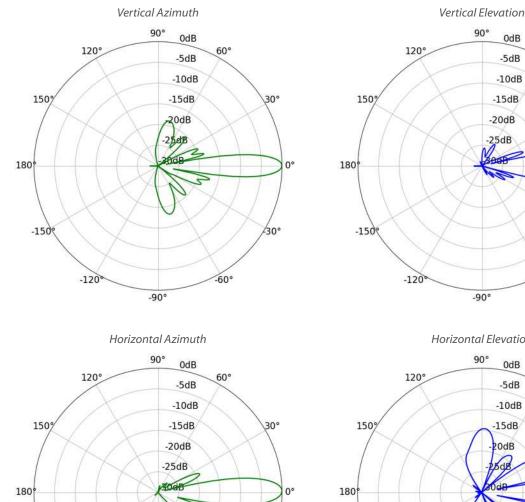
DimensionsSSS x 271.95 x 272.5 m (14.09 x 10.71 x 10.73 m)Wight Withourd withourd withour thou the second sec		LBE-5AC-Gen2	
With Mount With MountB00 g 1,76 lbg 980 g 2,16 lbPower Supply24V, 0.3 A Gigabit PoE Adapter (Included)Max. Power Consumption24V, 0.3 A Gigabit PoE Adapter (Included)Max. Power ConsumptionPossive PoE (Pairs 4, 5+; 7, 8 Return)Power MethodPossive PoE (Pairs 4, 5+; 7, 8 Return)Supported Voltage Range24V ± 10%Gain24V ± 10%Metworking InterfaceProcessor SpecsMemoryLEDsPower, MIPS 74KcMendePower, Ethernet PortMins SizesPtP ModePtPM OdeInclosure CharacteristicsMountingMountingPole-Mounting Kit (Included)Mind LoadingMind SurvivabilitySto/FMP ProtectionOperating TemperatureOperating TemperatureOperating HumidityStores Stores Store	Dimensions		358 x 271.95 x 272.5 mm (14.09 x 10.71 x 10.73")
Max. Power ConsumptionTWPower Method	Without Mount		
Power MethodPassive PoE (Pairs 4, 5+; 7, 8 Return)Supported Voltage Range24V ± 10%GainC23 d BiNetworking Interface(1) 10/100/1000 Ethermet PortProcessor SpecsC(1) 10/100/1000 Ethermet PortMemoryC64 MB DDR2LEDsPtP ModePtWP ModeChannel SizesPtP ModePtWP Mode10/20/30/40/50/60/80 MHz10/20/30/40 MHzEnclosure CharacteristicsCReflector (SGCC 0.6T) / Plastic: PCMuntingInterfacePtP ModeWind LadingInterface200 km/h (125 mph)Kind SurvivabilityInterface200 km/h (125 mph)ESD/EMP ProtectionInterface± 24 kV Contart / AitOperating FumpiratureSto 95% NoncondensingOperating HumiditySto 95% Noncondensing	Power Supply		24V, 0.3A Gigabit PoE Adapter (Included)
Supported Voltage Range         Supported Voltage Range         Cannot Be (all of	Max. Power Consumption		7W
GainC3 dBiNetworking Interface(1) 10/1000 Ethernet PortProcessor Specs(1) 10/1000 Ethernet PortMemory(1) 10/1000 Ethernet PortLEDs(1) 10/1000 Ethernet PortChannel SizesPtP ModeProcessor CharacteristicsPtP ModeMounting(1)/20/30/40/50/60/80 MHzMounting(1)/20/30/40/MHzWind Loading(1)/20/30/40/MI2Wind Survivability(1)/20/30/40/MI2ESD/EMP Protection(1)/20/30/40/MI2Operating Temperature(1)/20/30/40/MI2Operating Humidity(1)/20/30/C40 to 158°F)	Power Method		Passive PoE (Pairs 4, 5+; 7, 8 Return)
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Memory64 MB DDR2LEDsPower, EthernetChannel SizesP1P0PtMP Mode10/20/30/40/50/60/80 MHz10/20/30/40 MHzEnclosure CharacteristicsCMountingCMountingPole-Mounting Kit (Included)Wind LoadingCWind SurvivabilityCESD/EMP ProtectionCOperating TemperatureCOperating HumidityCCorrect Market M	Networking Interface		(1) 10/100/1000 Ethernet Port
Industry         Industry         Industry           LEDs         Power, Ethernet           Channel Sizes         PtP Mode         PtVM Mode           Ind/20/30/40/50/60/80 MHz         Ind/20/30/40 MHz         Ind/20/30/40 MHz           Enclosure Characteristics         Indextry         Reflector (SGCC 0.6T) / Plastic: PC           Mounting         Indextry         Pole-Mounting Kit (Included)           Wind Loading         Indextry         Pole-Mounting Kit (Included)           Wind Survivability         Indextry         Indextry           ESD/EMP Protection         Indextry         Indextry           Operating Temperature         Indextry         Indextry           Operating Humidity         Indextry         Indextry	Processor Specs		MIPS 74Kc
Channel Sizes         PtP Mode         PtMP Mode           In/20/30/40/50/60/80 MHz         In/20/30/40 MHz           Enclosure Characteristics         In/20/30/40/50/60/80 MHz         Reflector (SGCC 0.6T) / Plastic: PC           Mounting         In/20/30/40/50/60/80 MHz         Pole-Mounting Kit (Included)           Wind Loading         In/20/30/40/50/60/80 MHz         Pole-Mounting Kit (Included)           Wind Survivability         In/20/30/40/50/60/80 MHz         275 N @ 200 km/h (61.8 lbf @ 125 mph)           ESD/EMP Protection         In/20/30/40/50/60/80 MHz         200 km/h (125 mph)           Operating Temperature         In/20/30/40/50/60/80 MHz         In/20/30/40/50/60/80 MHz           Operating Humidity         In/20/30/40/50/60/80 MHz         In/20/30/40/50/60/80 MHz	Memory		64 MB DDR2
10/20/30/40/50/60/80 MHz10/20/30/40 MHzEnclosure CharacteristicsReflector (SGCC 0.6T) / Plastic: PCMountingPole-Mounting Kit (Included)Wind LoadingCTS N @ 200 km/h (61.8 lbf @ 125 mph)Wind SurvivabilityCTS N @ 200 km/h (61.8 lbf @ 125 mph)ESD/EMP ProtectionCTS N @ 200 km/h (125 mph)Operating Temperature-40 to 70° C (-40 to 158° F)Operating HumiditySt o 95% Noncondensing	LEDs		Power, Ethernet
Enclosure CharacteristicsReflector (SGCC 0.6T) / Plastic: PCMountingPole-Mounting Kit (Included)Wind Loading275 N @ 200 km/h (61.8 lbf @ 125 mph)Wind Survivability200 km/h (125 mph)ESD/EMP Protection± 24 kV Contact / AirOperating Temperature-40 to 70° C (-40 to 158° F)Operating Humidity5 to 95% Noncondensing	Channel Sizes	PtP Mode	PtMP Mode
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Wind Survivability     200 km/h (125 mph)       ESD/EMP Protection     ± 24 kV Contact / Air       Operating Temperature     -40 to 70° C (-40 to 158° F)       Operating Humidity     5 to 95% Noncondensing	Mounting		Pole-Mounting Kit (Included)
ESD/EMP Protection     ± 24 kV Contact / Air       Operating Temperature     -40 to 70° C (-40 to 158° F)       Operating Humidity     5 to 95% Noncondensing	Wind Loading		275 N @ 200 km/h (61.8 lbf @ 125 mph)
Operating Temperature     -40 to 70° C (-40 to 158° F)       Operating Humidity     5 to 95% Noncondensing	Wind Survivability		200 km/h (125 mph)
Operating Humidity 5 to 95% Noncondensing	ESD/EMP Protection		± 24 kV Contact / Air
	Operating Temperature		-40 to 70° C (-40 to 158° F)
Certifications CE, FCC, IC	Operating Humidity		5 to 95% Noncondensing
	Certifications		CE, FCC, IC

Operating Frequency (MHz)					
Worldwide				5150 - 5875	
US/CA	U-NII-1: 5150 - 5250	U-NII-2A: 5250 - 5350 MHz	U-NII-2C: 5470 - 5725 MHz	U-NII-3: 5725 - 5850	

	Management Radio (MHz)
Worldwide	2412 - 2472
US/CA	2412 - 2462

LBE-5AC-Gen2 Output Power: 25 dBm								
	TX Power Specifications				RX Power Specifications			
Modulation	Data Rate	Avg. TX	Tolerance	Modulation	Data Rate	Sensitivity	Tolerance	
	1x BPSK (1/2)	25 dBm	± 2 dB		1x BPSK (1/2)	-96 dBm Min.	± 2 dB	
	2x QPSK (1/2)	25 dBm	± 2 dB		2x QPSK (1/2)	-95 dBm	± 2 dB	
	2x QPSK (¾)	25 dBm	± 2 dB	airMAX ac	2x QPSK (¾)	-92 dBm	± 2 dB	
ac	4x 16QAM (½)	25 dBm	± 2 dB		4x 16QAM (1/2)	-90 dBm	± 2 dB	
	4x 16QAM (¾)	25 dBm	± 2 dB		4x 16QAM (¾)	-86 dBm	± 2 dB	
airMAX	6x 64QAM (⅔)	25 dBm	± 2 dB		6x 64QAM (⅔)	-83 dBm	± 2 dB	
ai	6x 64QAM (¾)	24 dBm	±2dB		6x 64QAM (¾)	-77 dBm	± 2 dB	
	6x 64QAM (%)	23 dBm	± 2 dB		6x 64QAM (%)	-74 dBm	± 2 dB	
	8x 256QAM (¾)	21 dBm	± 2 dB		8x 256QAM (¾)	-69 dBm	± 2 dB	
	8x 256QAM (%)	21 dBm	± 2 dB		8x 256QAM (%)	-65 dBm	± 2 dB	

DATASHEET LiteBeam<sup>®</sup> AG GENZ



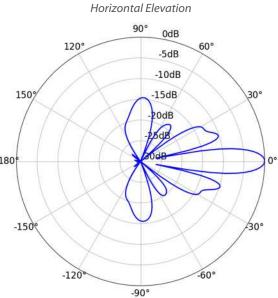
/30°

-60°

-90°

-150%

-120



-90°

90°

0dB

-5dB

-10dB

-15dB

-20dB

25dB

60°

-60°

30°

/30°

0°

# **Specifications**

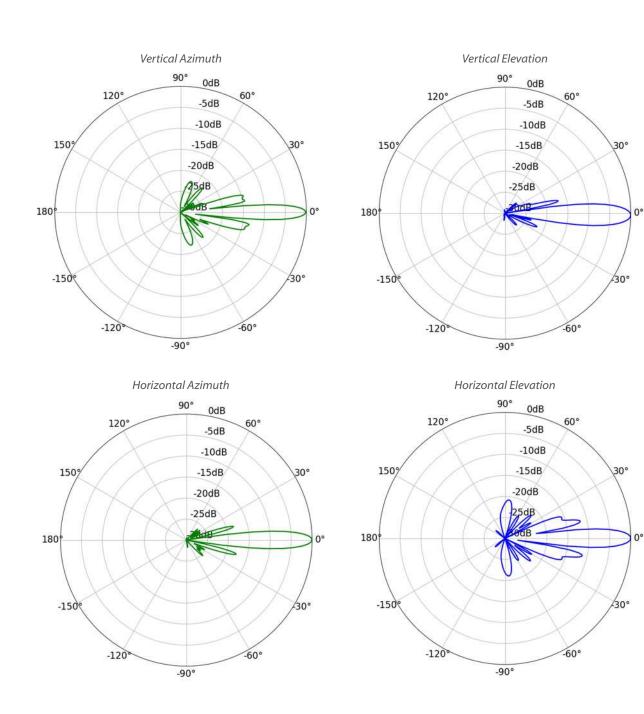
	LBE-5AC-LR	
Dimensions		512.5 x 385.75 x 258.3 mm (20.18 x 15.19 x 10.17")
Weight Without Mount With Mount		1.360 kg (2.998 lb) 1.735 kg (3.825 lb)
Power Supply		24V, 0.3A Gigabit PoE Adapter (Included)
Max. Power Consumption		7W
Power Method		Passive PoE (Pairs 4, 5+; 7, 8 Return)
Supported Voltage Range		24V ± 10%
Gain		26 dBi
Networking Interface		(1) 10/100/1000 Ethernet Port
Processor Specs		MIPS 74Kc
Memory		64 MB DDR2
LEDs		Power, Ethernet
Channel Sizes	PtP Mode	PtMP Mode
	10/20/30/40/50/60/80 MHz	10/20/30/40 MHz
Enclosure Characteristics		Reflector (Aluminum) / Plastic: PC
Mounting		Pole-Mounting Kit (Included)
Wind Loading		550 N @ 200 km/h (123.6 lbf @ 125 mph)
Wind Survivability		200 km/h (125 mph)
ESD/EMP Protection		± 24 kV Contact / Air
Operating Temperature		-40 to 70° C (-40 to 158° F)
Operating Humidity		5 to 95% Noncondensing
Certifications		CE, FCC, IC

Operating Frequency (MHz)					
Worldwide				5150 - 5875	
US/CA	U-NII-1: 5150 - 5250	U-NII-2A: 5250 - 5350 MHz	U-NII-2C: 5470 - 5725 MHz	U-NII-3: 5725 - 5850	

	Management Radio (MHz)
Worldwide	2412 - 2472
US/CA	2412 - 2462

LBE-5AC-LR Output Power: 25 dBm								
	TX Power Specifications				RX Power Specifications			
Modulation	Data Rate	Avg. TX	Tolerance	Modulation	Data Rate	Sensitivity	Tolerance	
	1x BPSK (1/2)	25 dBm	$\pm 2 \text{ dB}$		1x BPSK (1/2)	-96 dBm Min.	$\pm 2 \text{ dB}$	
	2x QPSK (1/2)	25 dBm	± 2 dB		2x QPSK (1/2)	-95 dBm	± 2 dB	
	2x QPSK (¾)	25 dBm	± 2 dB	airMAX ac	2x QPSK (¾)	-92 dBm	± 2 dB	
ac	4x 16QAM (½)	25 dBm	± 2 dB		4x 16QAM (1/2)	-90 dBm	± 2 dB	
	4x 16QAM (¾)	25 dBm	± 2 dB		4x 16QAM (¾)	-86 dBm	± 2 dB	
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	6x 64QAM (%)	23 dBm	± 2 dB		6x 64QAM (%)	-74 dBm	± 2 dB	
	8x 256QAM (¾)	21 dBm	± 2 dB		8x 256QAM (¾)	-69 dBm	± 2 dB	
	8x 256QAM (%)	21 dBm	± 2 dB		8x 256QAM (%)	-65 dBm	± 2 dB	

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Specifications are subject to change. Ubiquiti products are sold with a limited warranty described at: www.ubnt.com/support/warranty The limited warranty requires the use of arbitration to resolve disputes on an individual basis, and, where applicable, specify arbitration instead of jury trials or class actions.

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