Descrizione	Marca	Modello/Codice	q.tà	Prezzo unitario non ivato	Prezzo totale non ivato	Prezzo totale con IVA
Infonair Srl **Via Costalunga 115** **34149 Trieste**						
Spett.le **Istituto Nazionale di Oceanografia e di Geofisica Sperimentale – OGS** **Borgo Grotta Gigante 42/c 34010 Sgonico (TS)** **Tramite PEC**						
LOTTO 2						
Switch ethernet - Caratteristiche tecniche: compatibile con barra DIN 46277 a 5 porte (Analogo a Moxa EDS 205 5p)	Hikvision	DS-3T0310HP-E/HS	**14**	125,00	1.750,00	2.135,00
Radio 5GHz POE - Caratteristiche tecniche: porta ethernet: 1 x 10/100Base-TX (RJ45); frequenza operativa 5.475GHz - 5.825GHz; (Analoga a Ubiquiti Bullet M5 TI)	Ubiquiti	BULLETAC-IP67	**4**	135,00	540,00	658,80
Radio Antenna compatte 5GHz POE - Analoga a Ubiquiti LiteBeam 5AC Gen2 LBE-5AC-GEN2	Ubiquiti	LBE-5AC-Gen2-EU	**8**	70,00	560,00	683,20
Router wireless 4g - analogo a Teltonika RUT955	Mikrotik	LTAP MINI LTE KI	**12**	140,00	1.680,00	2.049,60
Totali					**4.530,00**	**5.526,60**
Condizioni di vendita: **-IVA a vosto carico** **-Trasporto a nostro carico** **-Pagamanto: come da capitolato** **-Consegna: nei tempi previsti dla capitolato**						
Trieste 29/01/2024	**Massimiliano Flego**					

BULLET™ AC

Dual-Band airMAX® ac Radio with Dedicated Wi-Fi Management

Model: B-DB-AC

airMAX ac Technology for 300+ Mbps Throughput at 5 GHz

Superior Processing by airMAX Engine with Custom IC

Plug and Play Integration with airMAX Antennas

UBIQUITI®
N E T W O R K S

Overview

Ubiquiti Networks designed airMAX® ac radios for high performance and ease of installation. You have the freedom to deploy the Bullet™ AC anywhere in the world, as it allows for a high degree of flexibility in configuring channel bandwidths (subject to local country regulations).

Zero-Variable Deployment

The Bullet AC eliminates the need to use RF cables and requires no special antenna or tools to install. No radio card / host board issues. No RF cable quality concerns. No mechanical stability concerns. No enclosure mounting requirements. With the Bullet AC, operators can just plug and go.

Software

airOS®8

airOS® 8 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® 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® Spectrum Analyzer

Installation Options
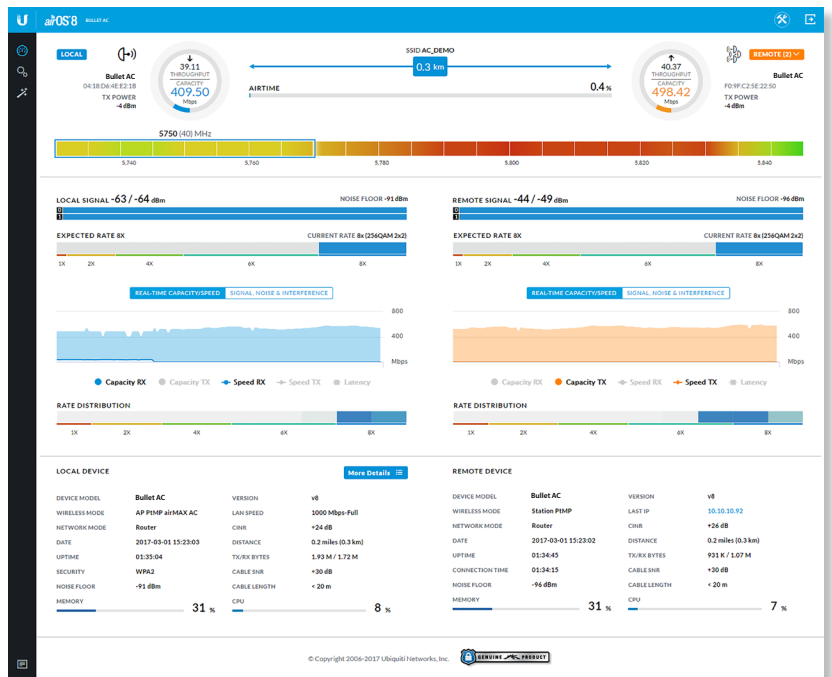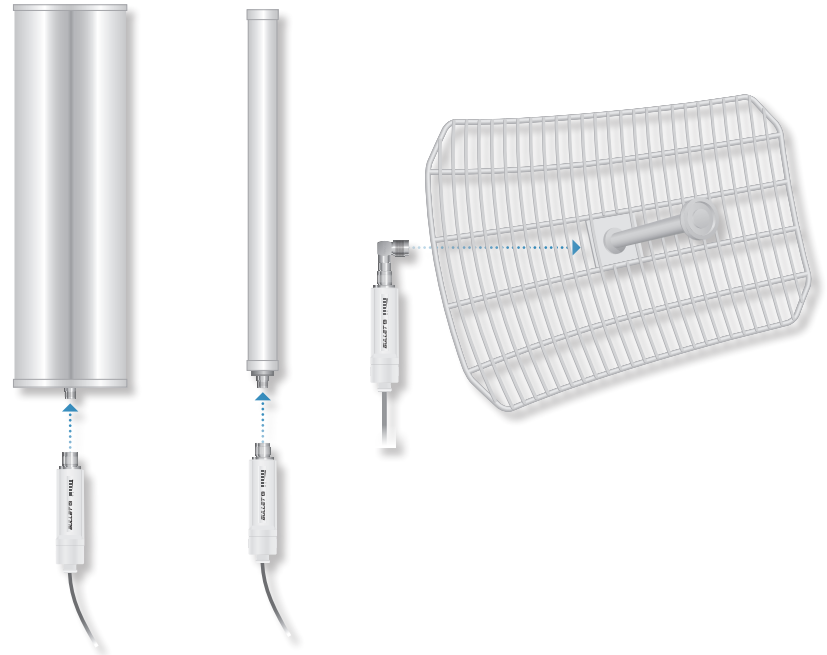
Advanced RF Analytics

airMAX ac devices feature a multi-radio architecture to power a revolutionary RF analytics engine.

An independent processor on the PCBA powers a second, dedicated radio, which persistently analyzes the full 5 GHz spectrum and every received symbol to provide you with the most advanced RF analytics in the industry.

Data from the spectrum analysis and RF performance monitoring is displayed on the Dashboard and airView Spectrum Analyzer.

Real-Time Reporting

airOS 8 displays the following RF information:

- Persistent RF Error Vector Magnitude (EVM) constellation diagrams
- Signal, Noise, and Interference (SNI) diagrams
- Carrier to Interference-plus-Noise Ratio (CINR) histograms

Spectral Analysis

airView allows you to identify noise signatures and plan your networks to minimize noise interference. airView performs the following functions:

- Constantly monitors environmental noise
- Collects energy data points in real-time spectral views
- Helps optimize channel selection, network design, and wireless performance

airView runs in the background without disabling the wireless link, so there is no disruption to the network.

In airView, there are three spectral views, each of which represents different data.

- **Waterfall** Aggregate energy collected for each frequency
- **Waveform** Aggregate energy collected
- **Ambient Noise Level** Background noise energy shown as a function of frequency

airView provides powerful spectrum analyzer functionality, eliminating the need to rent or purchase additional equipment for conducting site surveys.
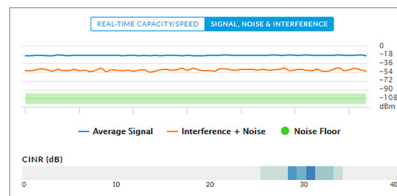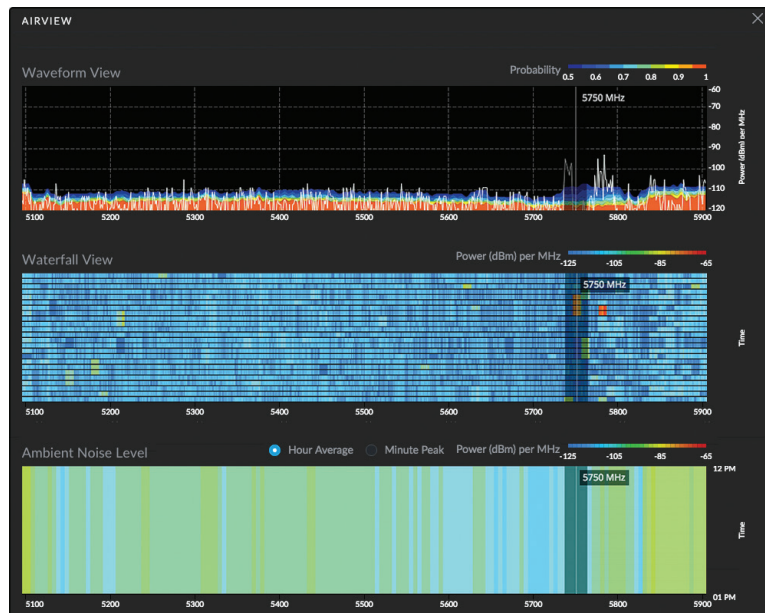
Multi-Radio Architecture
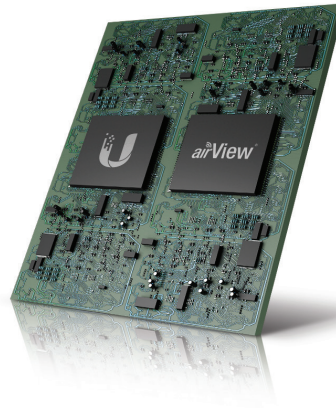
Constellation Diagram
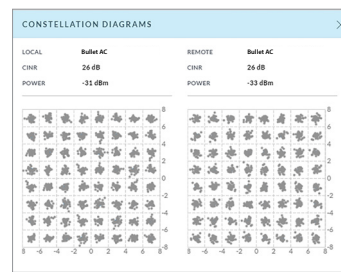
SNI Diagram and CINR Histogram

Dedicated Spectral Analysis

Technology

Unlike standard Wi-Fi protocol, Ubiquiti's Time Division Multiple Access (TDMA) airMAX ac protocol allows each client to send and receive data using pre-designated time slots scheduled by an intelligent AP controller.

This time slot method eliminates hidden node collisions and maximizes airtime efficiency, so airMAX ac technology provides performance improvements in latency, noise immunity, scalability, and throughput compared to other outdoor systems in its class.

Intelligent QoS Priority assigned to voice/video for seamless streaming.

Scalability High capacity and scalability.

Long Distance Capable of high-speed, carrier-class links.

Superior Performance

The next-generation airMAX ac technology boosts the advantages of our proprietary TDMA protocol.

Ubiquiti's airMAX engine with custom IC dramatically improves TDMA latency and network scalability. The custom silicon provides hardware acceleration capabilities to the airMAX scheduler, to support the high data rates and dense modulation used in airMAX ac technology.

Throughput Breakthrough

airMAX ac supports high data rates, which require dense modulation: 256QAM – a significant increase from 64QAM, which is used in airMAX.

With their use of proprietary airMAX ac technology, airMAX ac products supports up to 500+ Mbps (maximum 80 MHz channel width) real TCP/IP throughput – up to triple the throughput of standard airMAX products.
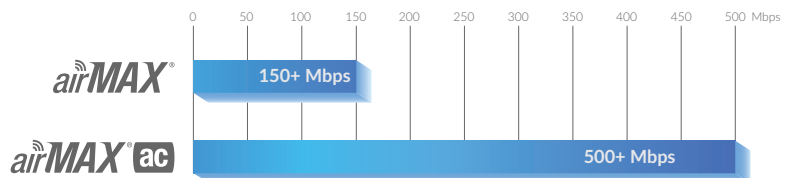
airMAX ac TDMA Technology
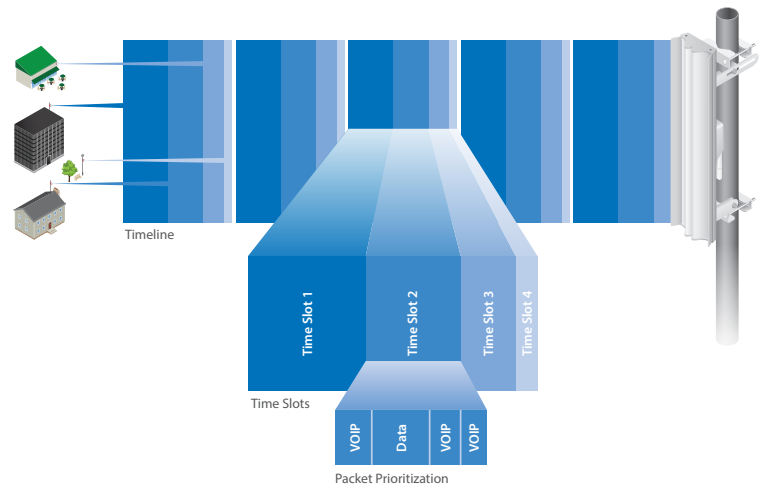
Up to 100 airMAX ac stations can be connected to an airMAX ac Sector; four airMAX ac stations are shown to illustrate the general concept.

airMAX ac Network Scalability
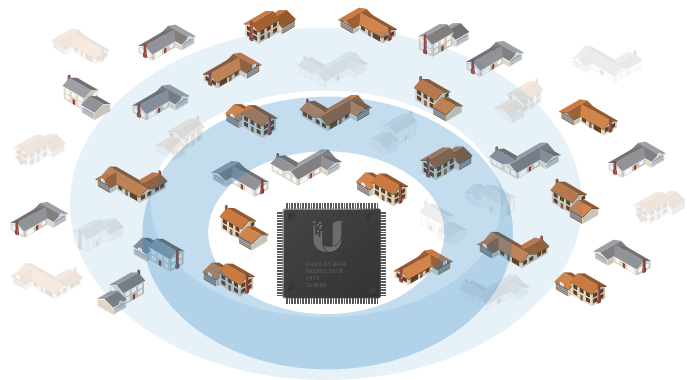
Superior Throughput Performance

BULLET™ AC

Features

Dual-Band Frequency The Bullet AC covers both 2.4 and 5 GHz spectrums, covering a wide range of frequency bands that work well for both short and long-distance links.

Passive Power over Ethernet (PoE) 24V Passive PoE functionality is included. Both power and data are carried over a single Ethernet cable to the Bullet AC. Use the included PoE Adapter or an optional PoE switch.

Output Power The Bullet AC offers up to 22 dBm of output power.

Weatherproof Design The Bullet AC features a weatherproof design. Made from a high-grade, powder-coated aluminum, the casing can withstand nature's harshest outdoor elements.

Hardware Overview

N-Type Connector

LEDs
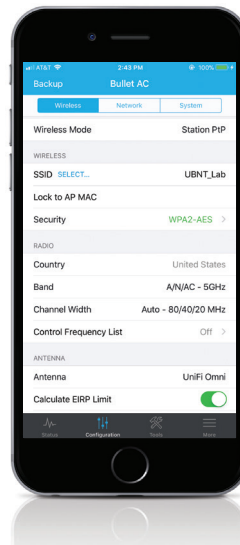
Ethernet Port

Cable Gland Body

Compression Seal
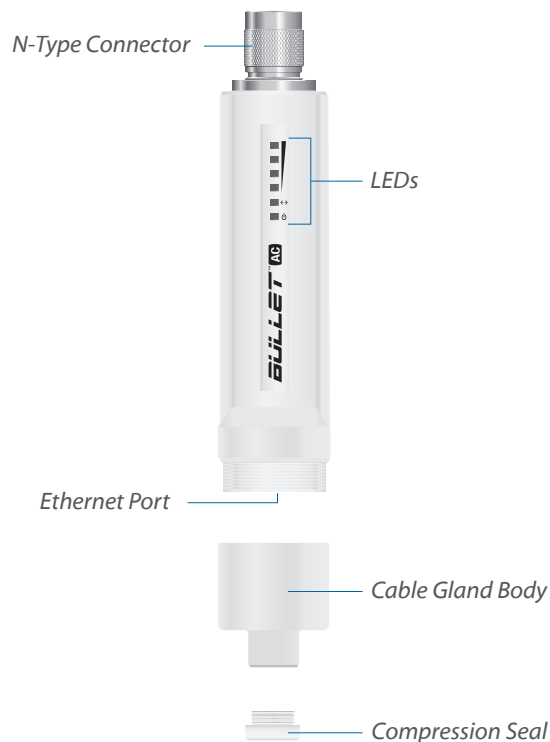
UNMS App

The Bullet AC integrates a separate Wi-Fi radio for fast and easy setup using the Ubiquiti Network Management System (UNMS) app on your mobile device.

Accessing airOS via Wi-Fi

The UNMS™ app provides instant accessibility to the airOS configuration interface and can be downloaded from the App Store (iOS) or Google Play™ (Android). UNMS allows you to set up, configure, and manage your device, and offers various configuration options once you're connected or logged in.

UNMS Configuration Screen

Specifications

Bullet AC	
Dimensions	190 x 46 mm (7.48 x 1.81")
Weight	196 g (6.91 oz)
Enclosure	Powder-Coated Aluminum
Networking Interface	Gigabit Ethernet Port
Antenna Connector	N-Type Connector
LEDs	Power, Ethernet, (4) Signal Strength

Throughput
    2.4 GHz
    5 GHz
	160+ Mbps
	300+ Mbps

Max. Power Consumption	8W
Output Power	22 dBm
Power Supply	AC to 24VDC, 0.5A Gigabit PoE Adapter
Power Method	24V Passive PoE (Pairs 4, 5+; 7, 8 Return)
ESD/EMP Protection	± 24 kV Contact / Air
Operating Temperature	-40 to 70° C (-40 to 158° F)
Operating Humidity	5 to 95% Condensing
Shock and Vibration	ETSI300-019-1.4
Certifications	CE, FCC, IC

Bullet AC Output Power: 22 dBm							
TX Power Specifications				RX Power Specifications			
Modulation	Data Rate	Avg. TX	Tolerance	Modulation	Data Rate	Sensitivity	Tolerance
airMAX ac	1x BPSK (½)	22 dBm	± 2 dB	airMAX ac	1x BPSK (½)	-93 dBm	± 2 dB
	2x QPSK (½)	22 dBm	± 2 dB		2x QPSK (½)	-92 dBm	± 2 dB
	2x QPSK (¾)	22 dBm	± 2 dB		2x QPSK (¾)	-89 dBm	± 2 dB
	4x 16QAM (½)	22 dBm	± 2 dB		4x 16QAM (½)	-87 dBm	± 2 dB
	4x 16QAM (¾)	22 dBm	± 2 dB		4x 16QAM (¾)	-83 dBm	± 2 dB
	6x 64QAM (⅔)	22 dBm	± 2 dB		6x 64QAM (⅔)	-80 dBm	± 2 dB
	6x 64QAM (¾)	21 dBm	± 2 dB		6x 64QAM (¾)	-74 dBm	± 2 dB
	6x 64QAM (⅚)	20 dBm	± 2 dB		6x 64QAM (⅚)	-71 dBm	± 2 dB
	8x 256QAM (¾)	18 dBm	± 2 dB		8x 256QAM (¾)	-66 dBm	± 2 dB
	8x 256QAM (⅚)	18 dBm	± 2 dB		8x 256QAM (⅚)	-62 dBm	± 2 dB

Operating Frequency (MHz)	
Worldwide	5150 - 5875
USA	5725 - 5850

Management Radio (MHz)	
Worldwide	2412 - 2472
USA	2412 - 2462

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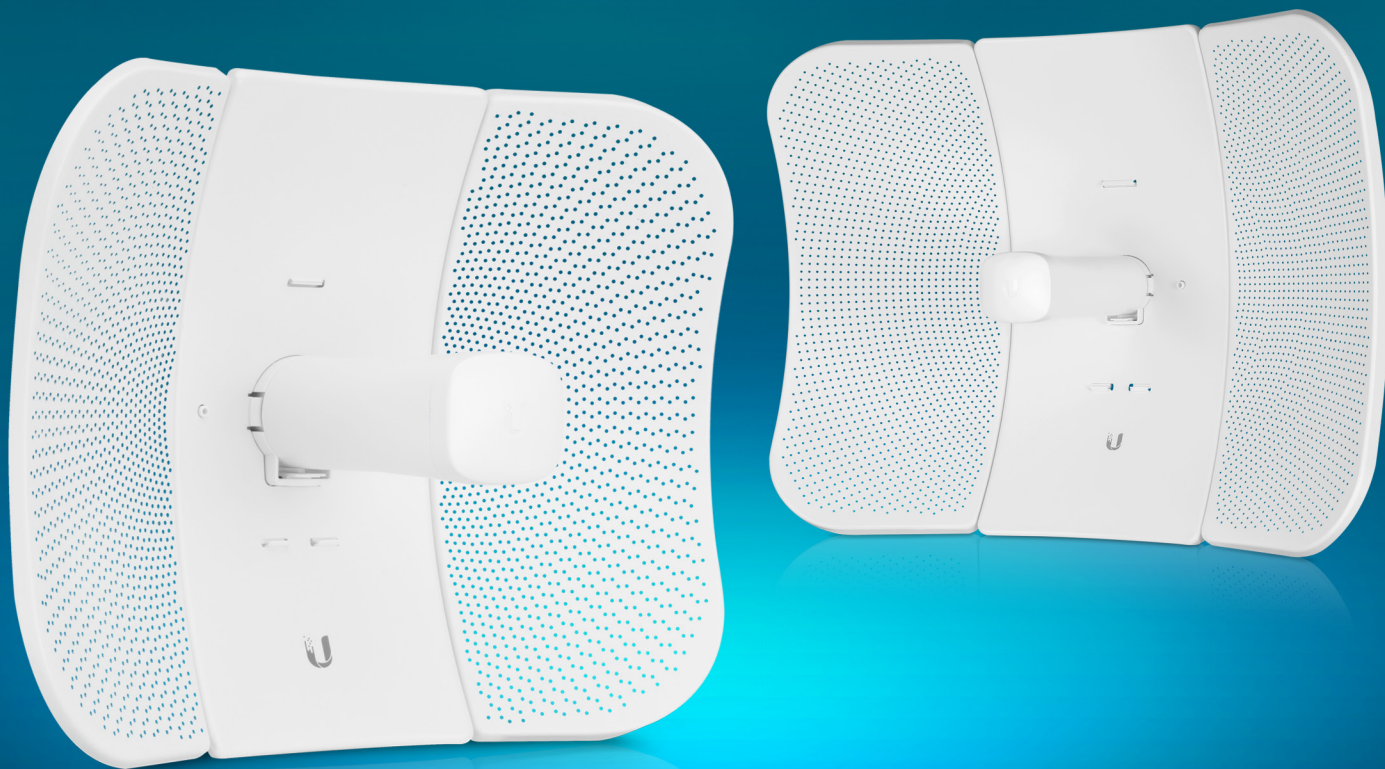
LiteBeam® AC GEN2

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

UBIQUITI
N E T W O R K S

Overview

Ubiquiti Networks launches the latest generation of airMAX® CPE (Customer Premises Equipment), the LiteBeam® 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®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® Channel Selection Tool
- Redesigned User Interface
- Dynamic Configuration Changes
- Instant Input Validation
- HTML5 Technology
- Optimization for Mobile Devices
- Detailed Device Statistics
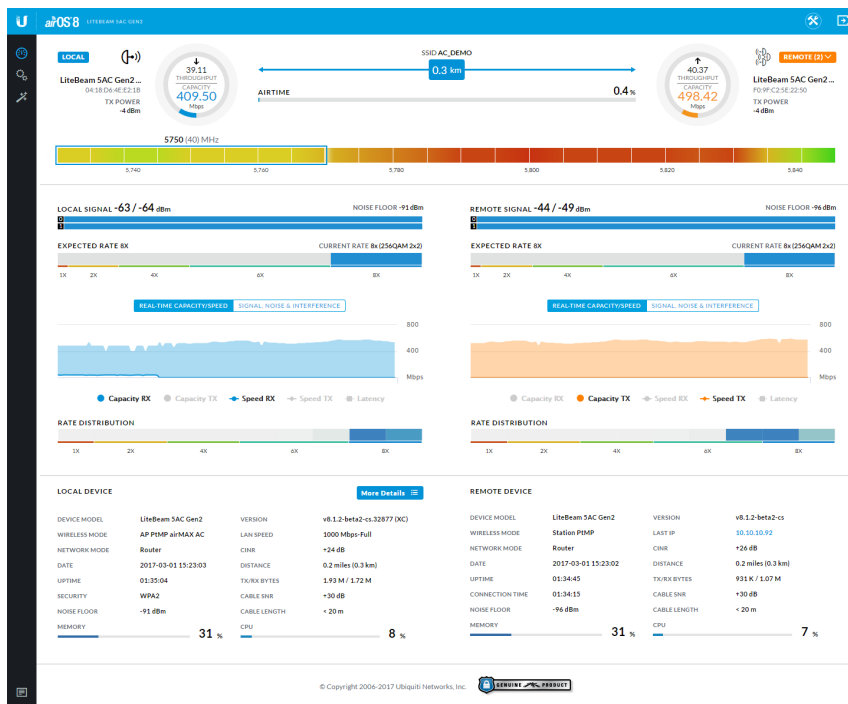- Comprehensive Array of Diagnostic Tools, including RF Diagnostics and airView® Spectrum Analyzer

Application Examples

LBE-5AC-Gen2
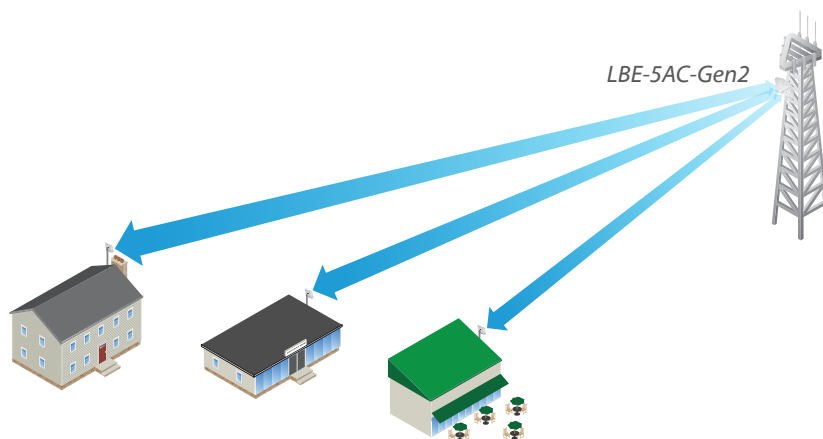
LiteBeam as a cost-effective WISP deployment in an airMAX ac Point-to-MultiPoint network.
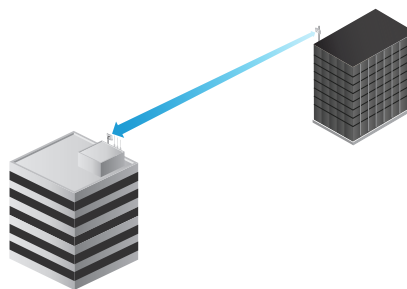
A LiteBeam on each side of a Point-to-Point link.

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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™ app provides instant accessibility to the airOS configuration interface and can be downloaded from the App Store (iOS) or Google Play™ (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.
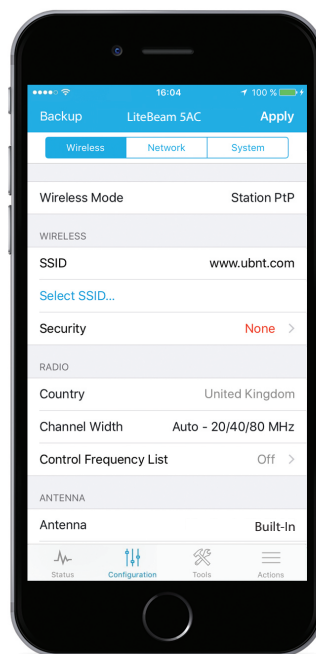
Models

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

LiteBeam® AC GEN2

Model: LBE-5AC-Gen2

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

LiteBeam® AC LR

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).
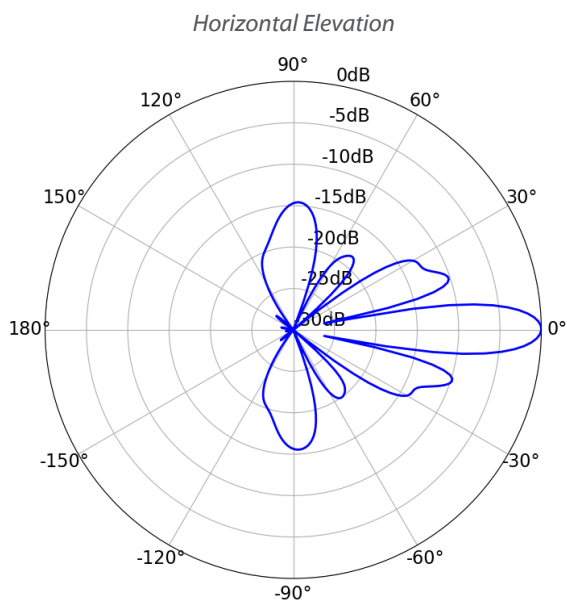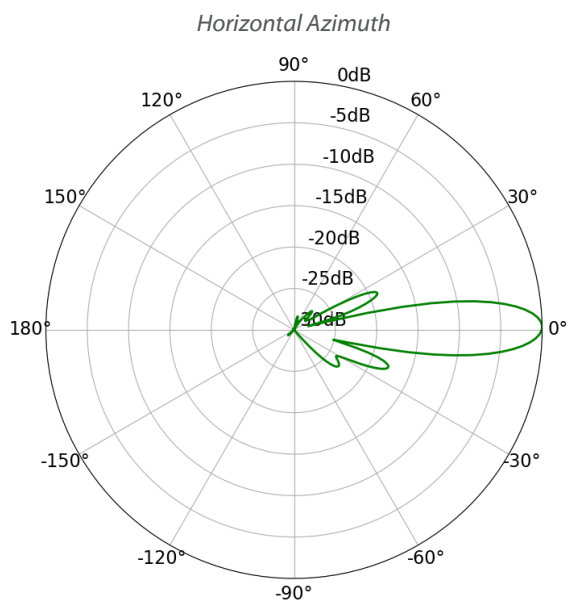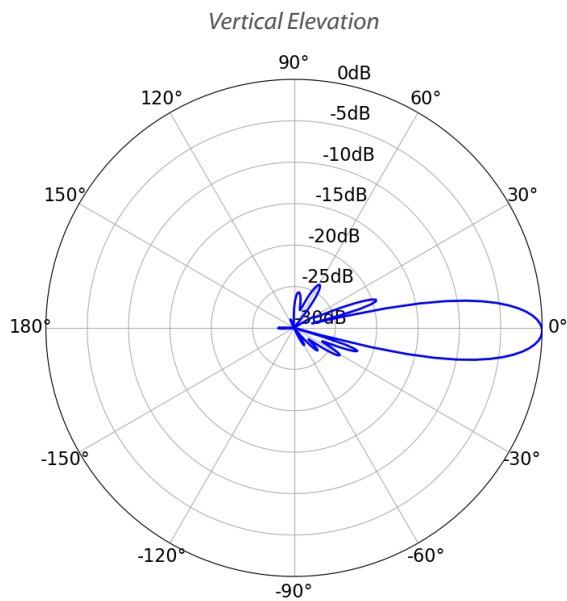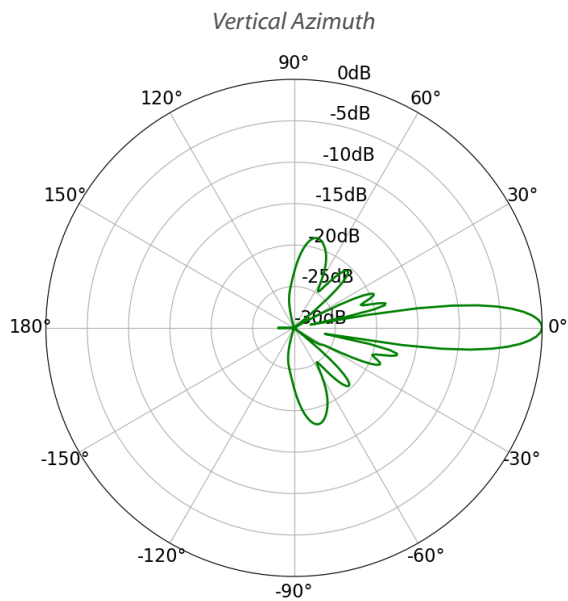
Specifications

LBE-5AC-Gen2		
Dimensions		358 x 271.95 x 272.5 mm (14.09 x 10.71 x 10.73")

Weight
    Without Mount
    With Mount
		
		800 g (1.76 lb)
		980 g (2.16 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		23 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 (SGCC 0.6T) / Plastic: PC
Mounting		Pole-Mounting Kit (Included)
Wind Loading		275 N @ 200 km/h (61.8 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-Gen2 Output Power: 25 dBm							
TX Power Specifications				**RX Power Specifications**			
Modulation	Data Rate	Avg. TX	Tolerance	Modulation	Data Rate	Sensitivity	Tolerance
airMAX ac	1x BPSK (½)	25 dBm	± 2 dB	airMAX ac	1x BPSK (½)	-96 dBm Min.	± 2 dB
	2x QPSK (½)	25 dBm	± 2 dB		2x QPSK (½)	-95 dBm	± 2 dB
	2x QPSK (¾)	25 dBm	± 2 dB		2x QPSK (¾)	-92 dBm	± 2 dB
	4x 16QAM (½)	25 dBm	± 2 dB		4x 16QAM (½)	-90 dBm	± 2 dB
	4x 16QAM (¾)	25 dBm	± 2 dB		4x 16QAM (¾)	-86 dBm	± 2 dB
	6x 64QAM (⅔)	25 dBm	± 2 dB		6x 64QAM (⅔)	-83 dBm	± 2 dB
	6x 64QAM (¾)	24 dBm	± 2 dB		6x 64QAM (¾)	-77 dBm	± 2 dB
	6x 64QAM (⅚)	23 dBm	± 2 dB		6x 64QAM (⅚)	-74 dBm	± 2 dB
	8x 256QAM (¾)	21 dBm	± 2 dB		8x 256QAM (¾)	-69 dBm	± 2 dB
	8x 256QAM (⅚)	21 dBm	± 2 dB		8x 256QAM (⅚)	-65 dBm	± 2 dB

Vertical Azimuth

Vertical Elevation

Horizontal Azimuth

Horizontal Elevation

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
airMAX ac	1x BPSK (½)	25 dBm	± 2 dB	airMAX ac	1x BPSK (½)	-96 dBm Min.	± 2 dB
	2x QPSK (½)	25 dBm	± 2 dB		2x QPSK (½)	-95 dBm	± 2 dB
	2x QPSK (¾)	25 dBm	± 2 dB		2x QPSK (¾)	-92 dBm	± 2 dB
	4x 16QAM (½)	25 dBm	± 2 dB		4x 16QAM (½)	-90 dBm	± 2 dB
	4x 16QAM (¾)	25 dBm	± 2 dB		4x 16QAM (¾)	-86 dBm	± 2 dB
	6x 64QAM (⅔)	25 dBm	± 2 dB		6x 64QAM (⅔)	-83 dBm	± 2 dB
	6x 64QAM (¾)	24 dBm	± 2 dB		6x 64QAM (¾)	-77 dBm	± 2 dB
	6x 64QAM (⅚)	23 dBm	± 2 dB		6x 64QAM (⅚)	-74 dBm	± 2 dB
	8x 256QAM (¾)	21 dBm	± 2 dB		8x 256QAM (¾)	-69 dBm	± 2 dB
	8x 256QAM (⅚)	21 dBm	± 2 dB		8x 256QAM (⅚)	-65 dBm	± 2 dB

Vertical Azimuth

Vertical Elevation

Horizontal Azimuth

Horizontal Elevation

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LtAP mini series

The LtAP mini LTE kit is a small weatherproof wireless access point with a built in cellular modem that supports 2G (international version only), 3G and 4G (LTE) connectivity. It is also available separately, without the modem, so you can use your own.

Connect to the LtAP mini's built-in 802.11b/g/n wireless and access the LTE network from your phone or any other wireless device. The LtAP mini LTE also has one 10/100 Ethernet LAN port for your wired devices. The RS232 serial port gives you console access for debugging.

- 2.4 GHz AP in a rugged case
- miniPCIe for LTE
- Two SIM slots
- Built in GPS
- Serial port for other devices
- Perfect for cars or outdoor mobile applications

LtAP mini has a special enclosure with with a wall mounting kit, two SIM slots to alternate between cellular providers, and integrated GPS support, making this a perfect device for use in moving vehicles like cars, buses or trains. External GPS antenna is available for ordering separately (not included, product code ACGPSA).

The LTE card is connected to two internal antennas with u.FL connectors, so if you want, you can unplug the connectors and add your own external LTE antenna for better coverage. The unit has several powering options: 10-57 V PoE-in by Ethernet port, DC jack and microUSB.

Use the built in GPS module to track the location of your vehicle in real time, we have even provided a simple tracking application example in the RouterOS documentation, to help you start development of your platform.

| PoE injector | 24 V 1.2 A power adapter | External DC cable | Screw kit |

Three versions are available:

- **LtAP mini LTE kit (RB912R-2nD-LTm&R11e-LTE)** includes LTE modem that supports International LTE bands 1,2,3,7,8,20,38 and 40.
- **LtAP mini LTE kit-US (RB912R-2nD-LTm&R11e-LTE-US)** includes LTE modem that supports LTE bands 2,4,5 and 12, mostly used by mobile operators in United States, Canada and Latin America.
- **LtAP mini (RB912R-2nD-LTm)** is shipped with without LTE card installed (empty miniPCI-e slot), so you can use your own LTE card.

Specifications

Product code	RB912R-2nD-LTm&R11e-LTE	RB912R-2nD-LTm&R11e-LTE-US	RB912R-2nD-LTm
CPU	QCA9531 650 MHz		
Size of RAM	64 MB		
Storage	16 MB		
10/100 Ethernet ports	1		
Wireless	Built-in 2.4 GHz 802.11b/g/n, dual-chain		
Wireless chip model	QCA9531		
Wireless regulations	Specific frequency range can be limited by country regulations		
Antenna beam width	360°		
Wireless antenna gain	1.5 dBi		
GPS	Built-in MT3337V, with u.FL RF connector (external antenna required)		
PoE in	Yes		
SIM slot	2 Mini SIM slots		
LTE modem	Included	Included	None (slot for miniPCI-e LTE card available)
LTE category	4 (150Mbps Downlink, 50Mbps Uplink)		-
3G category	R7 (21Mbps Downlinks, 5.76Mbps Uplink)	R8 (Cat24 - 42.2Mbps Downlink) R7 (Cat14 - 21.1Mbps Downlink)	-
2G category	Class12		-
LTE antenna gain	3.5 dBi (with uFL connector)		
Serial port	RS232 (shared with GPS port)		
Supported input voltage	PoE in: 10 V - 57 V (Passive PoE and 802.3af/at with unshielded cable) DC jack: 8 - 30 V MicroUSB: 5 V		
Dimensions	139 x 77 x 28,5 mm		
Operating temperature	-40°C .. +50°C tested		
License level	4		
Operating System	RouterOS		
Max Power consumption	9 W		4 W

Wireless specifications

1MBit/s	22	-96
11MBit/s	22	-89
6MBit/s	20	-93
54MBit/s	18	-74
MCS0	20	-93
MCS7	16	-71
MCS7	16	-71

Supported bands

RB912R-2nD-LTm&R11e-LTE	
LTE (FDD) bands	1/2/3/7/8/20 (2100/1900/1800/2600/900/800)
LTE (TDD) bands	38/40 (2600/2300)
3G bands	1/2/5/8 (2100/1900/800/900)
2G bands	2/3/5/8 (1900/1800/800/900)

RB912R-2nD-LTm&R11e-LTE-US	
LTE (FDD) bands	2(1900)/4(1700)/5(850)/12(700)
3G bands	2(1900)/5(850)

HIKVISION®

DS-3T0306HP-E/HS

4-Port 100M Unmanaged Hi-PoE Switch

DS-3T0306HP-E/HS switches are layer 2 Hi-PoE switches, providing advanced PoE power supply technology and wider temperature (-30 to 65 °C) design on the basis of high-performance access to ensure stable data upload. The switches support Hi-PoE, long range, port isolation, and PoE watchdog function.

Key Feature

· 3 × 100M PoE ports, 1 × Hi-PoE port, 1 × gigabit RJ45 port and 1 × gigabit SFP Fiber Optical Port.

· IEEE 802.3at/af/bt standard for Hi-PoE port (Max. 60 W PoE output).

· IEEE 802.3at/af standard for PoE ports (Max. 30 W PoE output).

· IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.3z and IEEE 802.3ab standard.

· 6 KV surge protection for PoE ports.

· Up to 300 m long-range transmission.

· PoE watchdog to auto detect and restart the cameras that do not respond.

· Port isolation to improve network security.

· Wire-speed forwarding.

· Wider temperature (-30 to 65 °C) design.

· Store-and-forward switching.

· Solid high-strength metal shell.
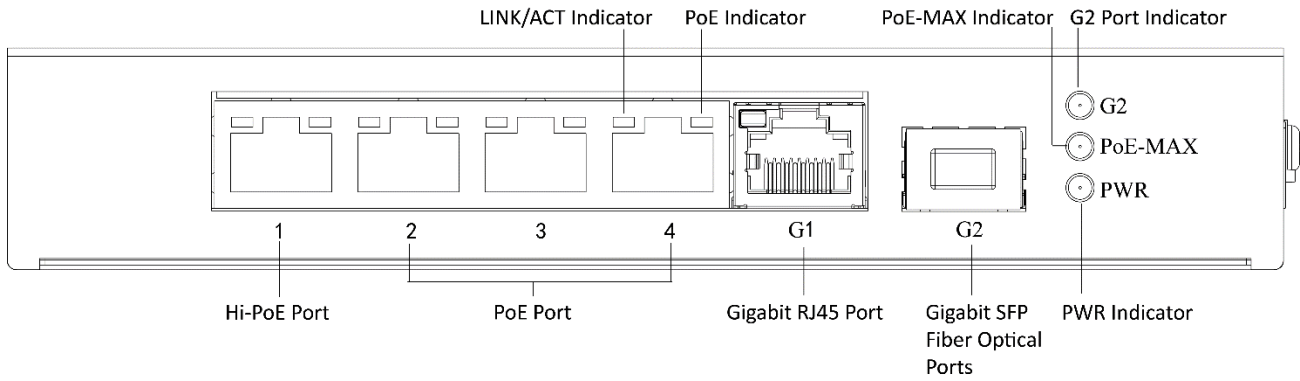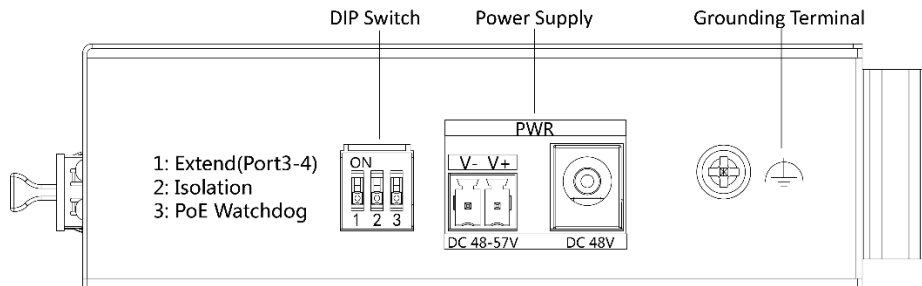
· Reliable fan-free design.

Specification

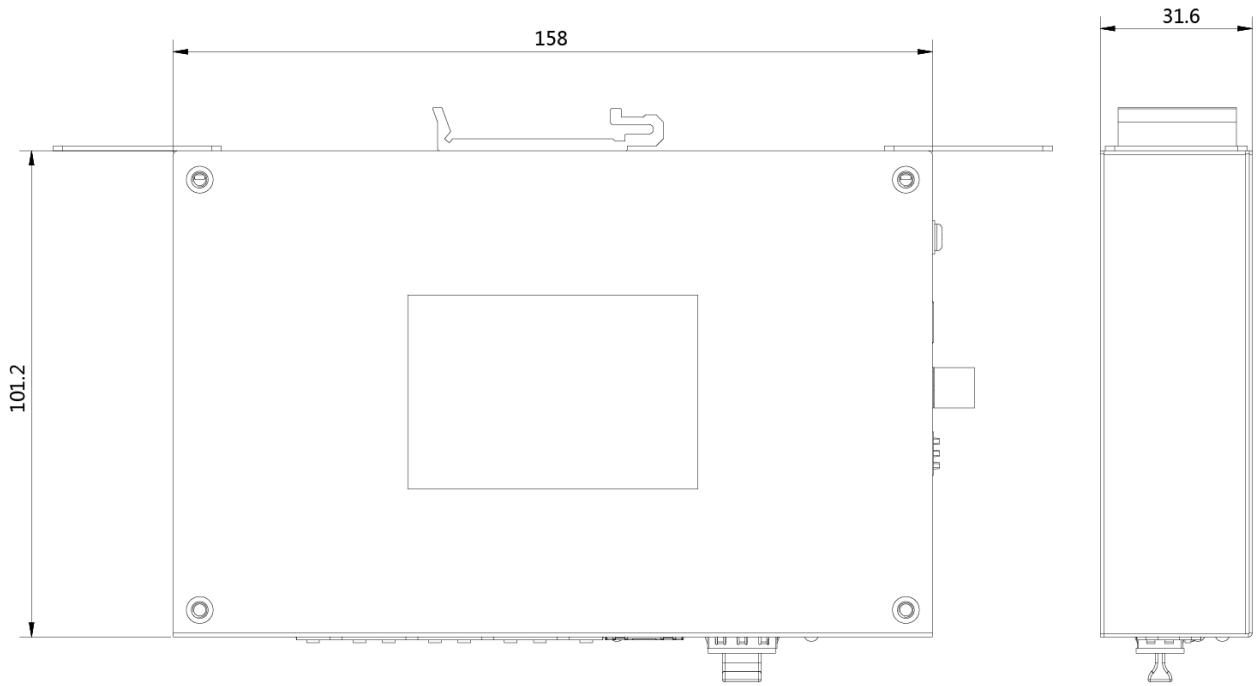| Model		DS-3T0306HP-E/HS
Network parameters	Port number	3 × 100M PoE ports, 1 × Hi-PoE port, 1 × gigabit RJ45 port and 1 × gigabit SFP Fiber Optical Port
	Port type	RJ45 port, full duplex, MDI/MDI-X adaptive
	Standard	IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.3z and IEEE 802.3ab
	Forwarding mode	Store-and-forward switching
	Working mode	Standard mode (default), Extend mode, Isolation mode, PoE watchdog mode
	Ports for long-distance transmission	Ports 3 and 4
	MAC address table	2 K
	Switching capacity	4.8 Gbps
	Packet forwarding rate	3.5712 Mpps
	Internal cache	1.0 Mbits
PoE power supply	PoE standard	Port 1: IEEE 802.3af, IEEE 802.3at, IEEE 802.3bt Ports 2 to 4: IEEE 802.3af, IEEE 802.3at
	PoE power pin	Ports 1 to 4: Ethernet cables 1/2/3/6 and 4/5/7/8 provide power supply simultaneously.
	PoE port	Ports 2 to 4
	Hi-PoE port	Port 1
	Max. port power	Port 1: 60 W Ports 2 to 4: 30 W
	PoE power budget	60 W
Dialing function	Long range	Ports 3 and 4: up to 300 m.
	Port isolation	Ports 1 to 4: port isolation mode to improve network security.
	PoE watchdog	Ports 1 to 4: auto detect and restart the cameras that do not respond.
General	Shell	Metal material, fan-free design
	Gross weight	0.915 kg (2.02 lb)
	Net weight	0.35 kg (0.77 lb)
	Dimension (L × H × D)	158 mm × 101.2 mm × 31.6 mm (6.22" × 3.98" × 1.24")
	Operating temperature	-30 °C to 65 °C (-22 °F to 149°F)
	Storage temperature	-40 °C to 85 °C (-40 °F to 185 °F)
	Operating humidity	5% to 95% (no condensation)
	Storage humidity	5% to 95% (no condensation)
	Power supply	48 to 57 VDC, 1.35 A Max.
	Power consumption in idle	< 5 W
	Max. power consumption	65 W
	Power source	65 W
Approval	EMC	FCC (47 CFR Part 15, Subpart B); CE-EMC (EN 55032: 2015, EN 61000-3-2: 2014, EN 61000-3-3: 2013, EN 55024: 2010 +A1: 2015); RCM (AS/NZS CISPR 32: 2015); IC (ICES-003: Issue 6, 2016)
	Safety	UL (UL 60950-1); CB (IEC 60950-1:2005 + Am 1:2009 + Am 2:2013); CE-LVD (EN 60950-1:2005 + Am 1:2009 + Am 2:2013)
	Chemistry	CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)

![HIKVISION]

Physical Interface

Front panel:

LINK/ACT Indicator   PoE Indicator   PoE-MAX Indicator   G2 Port Indicator

G2
PoE-MAX
PWR

1   2   3   4   G1   G2

Hi-PoE Port   PoE Port   Gigabit RJ45 Port   Gigabit SFP Fiber Optical Ports   PWR Indicator

Back panel:

DIP Switch   Power Supply   Grounding Terminal

1: Extend(Port3-4)
2: Isolation
3: PoE Watchdog

ON
1 2 3

PWR
V- V+
DC 48-57V   DC 48V

Available Model

DS-3T0306HP-E

Dimension (unit: mm)

Typical Application

4-Port 10/100M PoE
10/100M Unmanaged PoE

Pro-Series

Control Center

—— Power+Data(PoE)
—— Optical Fiber

6 KV Surge Protection

PoE Watchdog

IP Camera

Hi-PoE PTZ

IP Camera

Hi-PoE PTZ
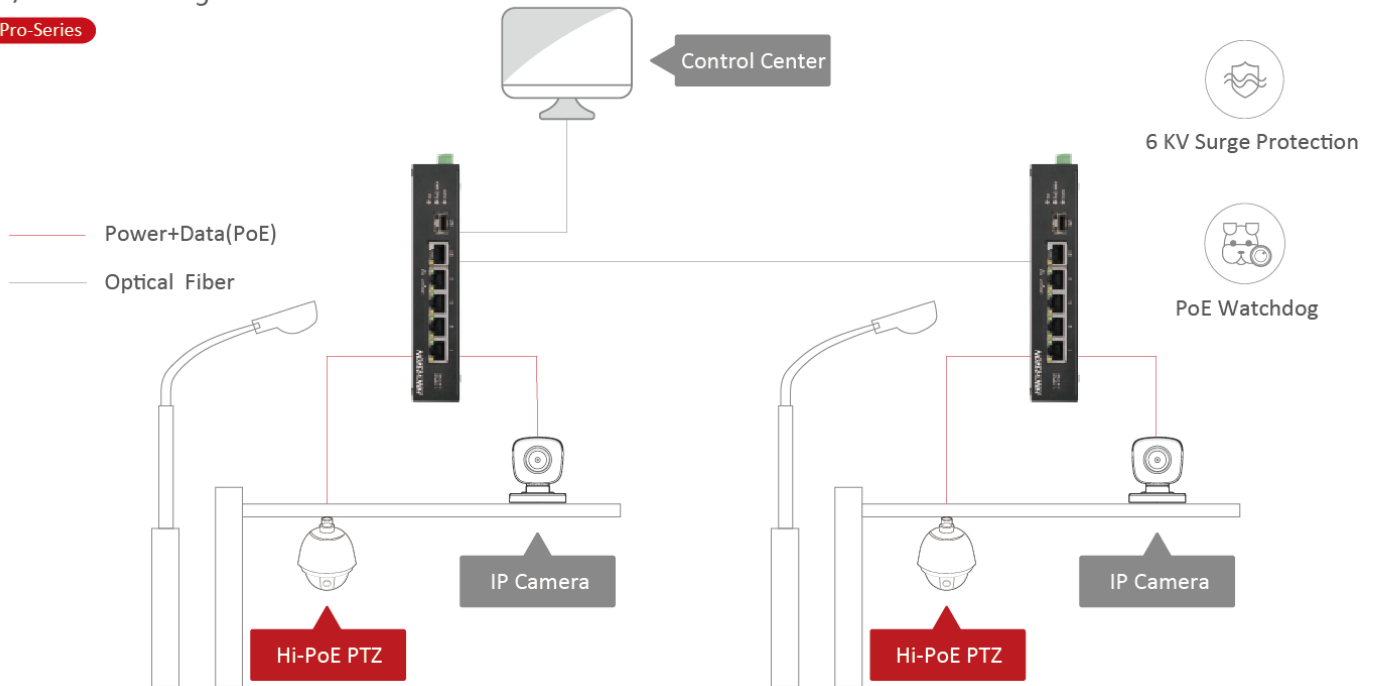
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