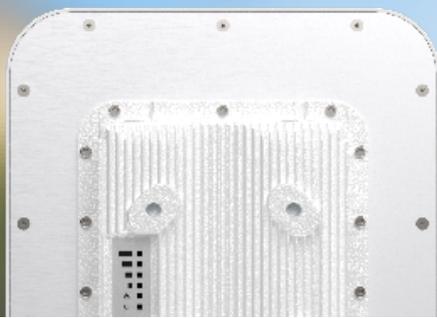




LigoDLB 5ax

High-Performance 802.11ax 5GHz Wireless Device for
Point-to-Point & Point-to-Multipoint Applications



Next-Gen Wireless Performance for Demanding Networks

The LigoDLB ax Series delivers high-performance Point-to-Point and Point-to-Multipoint wireless connectivity with 802.11ax technology, delivering up to 1.5 Gbps throughput, 1024-QAM modulation, and up to 24 dBm output power for fast, stable, long-range links. A dual-core CPU, 2.5 Gbps Ethernet port, and 160MHz-wide channel support ensure exceptional data processing and high PPS rates—ideal for real-time transmission. Enclosed in a rugged IP67-rated housing, it offers reliable, all-weather performance in even the harshest environments.

Ultra High Performance Wireless Device

<1500 Mbps

Working Frequency

5.1-5.9 GHz

Distance Recommendations:

Maximum (Antenna Dependent)



Optimal (Antenna Dependent)



Second Ethernet Port

The Gigabit Ethernet port with software-enabled PoE powers external devices like 802.3af PoE CCTV cameras or other LigoWave gear, offering flexible integration. This eliminates the need for extra PoE switches, lowering deployment costs and simplifying installations.

WIRELESS MANAGEMENT INTERFACE

Enable interface

SSID
LigoDLB-management

Security
WPA/WPA2 Personal

Improved Noise Immunity



The metal casing reduces interference and noise when multiple devices are mounted on the same pole. Its IP67-rated housing also acts as a heatsink, improving RF performance by dissipating heat.

Surge Protection



Complying with IEC 61000-4-5, it offers 6kV line-to-ground and 2kV line-to-line protection for reliable performance in harsh weather and unstable electrical conditions.

Design Built to Last



Designed for tough weather, it features an IP67-rated anticorrosive metal casing for long-lasting durability, making it a reliable choice for projects requiring standardized IP-rated equipment.



Remote Management Radio

Built-in 2.4 GHz management radio enables wireless configuration from up to 20 meters away. Ideal for installations in hard-to-reach areas, reducing maintenance costs and improving operational safety.

Technical Specifications

Distance

Maximum	Antenna Dependent
Recommended	Antenna Dependent

Wireless

WLAN Standard	IEEE 802.11a/n/ac/ax
Radio Mode	Dual 2x2 MIMO
Radio Frequency Band	5GHz models: 5.150 - 5.850GHz (FCC 5.150 - 5.250 and 5.725 - 5.850GHz)
Transmit Power	Up to +24dBm (Country Dependent)
Out-of band management	2.4 GHz access radio
Channel Size	20, 40, 80, 160MHz
Receiver Sensitivity	From -96dBm (HE20, MCS0) to -55dBm (HE160, MCS11)
Modulation Schemes	802.11ax: OFDMA/OFDM (1024 QAM, 256-QAM, 64-QAM, 16-QAM, QPSK, BPSK)
Data Rates	802.11ax @ 160MHz: 2402, 2161, 1921, 1729, 1441, 1297, 1152, 864, 576, 432, 288, 144Mbps 802.11ax @ 80MHz: 1201, 1080, 960, 864, 720, 648, 576, 432, 288, 216, 144, 72Mbps 802.11ax @ 40MHz: 573, 516, 458, 412, 344, 309, 275, 206, 137, 103, 68, 34Mbps 802.11ax @ 20MHz: 286, 258, 229, 206, 172, 154, 137, 103, 68, 51, 34, 17Mbps

Antenna

LigoDLB 5ax	N-Connectors for external antenna
Gain	Antenna Dependent
Second Antenna	Integrated 2.4GHz single-polarized omnidirectional patch antenna

Wired

First Interface	100/1000/2500 Base-T with PoE IN (RJ45)
Second Interface	10/100/1000 Base-T with PoE OUT (RJ45)

Physical

Dimensions without mount:

LigoDLB 5ax	Length 50 mm (1.9"), width 140 mm (5.5"), height 185 mm (7.2")
Mount length to pole	130 mm (5.1")

Weight including mount:

LigoDLB 5ax	1.76 kg (3.8 lb)
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Power

Power Supply	802.3at active PoE in (55 VDC)
Power Source	~100-240 VAC (AC to 55 VDC PoE Adapter Included)
Max Power Consumption	Up to 15W / 30W (with PoE out)
2nd Ethernet Port Power Supply	802.3af/at out 55VDC, up to 13W

Compatibility

Compatible with all LigoDLBn (802.11n) & LigoDLBac (802.11ac) devices (Wi-Fi mode)

Software features

- Bridge / Router IPv4 / Router IPv6
- Static / Dynamic IP modes with Built-in DHCP server
- NAT / Static routes / Port forward / DMZ
- Up to 8 SSID per radio
- Data and management VLANs (802.1q), with QnQ support
- Site survey, Ping / Traceroute, Spectrum analyser, Layer 3 / Layer 4 packet analyser*
- Configurable hardware watchdog (ping, system health)
- User-Controlled PoE out (55V)

Duplexing Scheme

Time Division Duplex

Wireless Security

WPA/WPA2/WPA3 Personal, WPA/WPA2/WPA3 Enterprise (802.1x), WACL, Client isolation

Services

Services

SNMP v1/v2c/v3*, NTP client, system alerts

Discovery Services

SSDP, CDP/LLDP

Environmental Specifications

Outdoor Ingress Protection Rating:

IP67

Surge Protection

EN61000- 4-5, 10/700µs pulse

Operating Temperature

-40°C (-40°F) ~ +65°C (+149°F)

Humidity

0~95% (Non-Condensing)

Management

Dedicated 2.4GHz radio

For management from any Wi-Fi compatible client device

System monitoring

SNMP v1/v2c/v3*, Syslog, Web UI, Infinity Controller

Configuration

WebUI, Infinity Controller

Regulatory

Certification

FCC, CE, UK CA*

*Coming soon



LigoWave

www.ligowave.com

LigoDLB 5ax

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