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　/　LigoWave LigoDLB 5-15

LigoWave LigoDLB 5-15

MPN: **DLB-5-15**　│　Order code: **DLB-5-15**　│　Quick code: **#2344**

2x2 MIMO, Integrated Directional Panel 9dBi Antenna, 802.11 g/n, up to 28 dBm transmit power, up to 170 Mbps Capacity, 1x 10/100 LAN Port, Max recommended distance: 5 km (PTMP mode), 7 km (PTP mode)
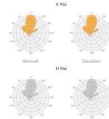
Price: *	For orders (total sum):
59.00$	>0$

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| Qty: | 1 | ⇕ | Add |

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* better prices only for registered customers

Additional product information:

Datasheet (/file/dlb-5-15_ds0.pdf)
Link to manufacturer product page (https://www.ligowave.com/products/dlb-5-15)

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Features:

The DLB 5-15 is a versatile, very effi cient, and stable 5 GHz CPE. This product is equipped with an extreme output power (up to 29 dBm) 802.11n MIMO radio wrapped securely inside a robust, well designed and a small form factor enclosure. The robust hardware is coupled with a 15 dBi directional panel antenna; ideal for short to medium range applications.

Smart dynamic polling based protocol (iPoll 2) ensures reliable communication even in congested areas with 64 client devices connected to a base-station.

Equipped with LigoWave's dual fi rmware image feature, remote software upgrades are assured even if a power failure interrupts the process. The device will restart using the prior fi rmware in the event of an upgrade failure.

The enclosure is made of polycarbonate plastic with UV inhibitors to provide years of outdoor exposure in direct sunlight without cracking. Tested to meet vibration, temperature, drop, salt, fog, and electrical surge standards to ensure a high level of reliability and backed by a two-year warranty. It is equipped with a grounding lug and a grounded 24-volt PoE to allow a professional installation, resistant to electrical surges.

Integrated surge protection
3 kV line to ground and 1 kV line-to-line protection allows operating in a harsh weather conditions and unstable electrical installations.

LigoWave OS
LigoWave OS contains all of the essential features for establishing fast, strong, and reliable PTMP networks. The LigoWave OS includes IPv6 Bridge & Router Support, SSDP & Bonjour Device Discovery Options, Flexible Traffic Shaping, DHCP Option 82, and more. The user interface is built on HTML5 with responsive design.

iPoll 3: Enhanced Performance Protocol
LigoWave's iPoll™ PTMP (Point-to-Multi-Point) proprietary protocol is an innovative solution, eliminating transmission congestion and close-cluster interference created in wireless PTMP installations.

Hotspot scenario support
Starting from v7.52 Infinity firmware image can be used on a LigoDLB series devices for the outdoor hotspot and other

related applications. After the firmware upgrade DLB devices are converted into access points for outdoor hotspot networks and will lose the functionality of point-to-point or point-to-multipoint connectivity.

Specification:

Wireless
WLAN standard: IEEE 802.11 a/n, iPoll (proprietary)
Radio mode: MIMO 2x2
Radio frequency band: 5.150 - 5.850 GHz (FCC 5.150 - 5.250 and 5.725 - 5.850 GHz)
Transmit power: Up to 29 dBm (country dependent)
Receive sensitivity: Varying between -97 and -75 dBm depending on modulation
Channel size: 5,10, 20, 40 MHz
Modulation schemes: 802.11 a/n: OFDM (64-QAM, 16-QAM, QPSK, BPSK)
Data rates:
   802.11 n: 300, 270, 240, 180, 120, 90, 60, 30 Mbps
   802.11 a: 54, 48, 36, 24, 18, 12, 9, 6 Mbps
Error correction: FEC, Selective ARQ
Duplexing scheme: Time division duplex

Antenna
Type: Integrated directional panel antenna
Gain: 15 dBi

Wired
Interface: 10/100 Base-T, RJ45

Software
Wireless operating modes: Access point (auto WDS), access point (iPoll 2), station (WDS, iPoll 2), station (ARP NAT)
Wireless techniques: Smart station polling, smart auto-channel, adaptive auto modulation, automatic transmit power control (ATPC)
Wireless security: WPA/WPA2 personal, WPA/WPA2 enterprise, WACL, user isolation
Wireless QoS: 4 queues prioritization on iPoll 2
Network operating modes: Bridge, router iPv4, router IPv6
Network techniques: Routing with and without NAT, VLAN
WAN protocols: Static IP, DHCP client, PPPoE client
Services: DHCP server, SNMP server, NTP client, router advertisement daemon, ping watchdog
Management: HTTP(S) GUI, SSH, SNMP read, WNMS, Telnet
Tools: Site survey, link test, antenna alignment

Physical
Dimensions: Length 140 mm (5.51 ''), width 90 mm (3.54 ''), height 35 mm (1.38 '')
Weight: 122 g (4.3 oz)

Power
Power supply: 12 - 24 VDC passive PoE (24 V passive PoE adapter is included in the package)
Power source: 100 – 240 VAC
Power consumption (max): 4.5 W

Environmental
Operating temperature: -40°C (-40 F) ~ +65°C (+149 F)
Humidity: 0 ~ 90 % (non-condensing)

Management
System monitoring: SNMP v1 server, Syslogs, system alerts via e-mail and SNMP trap

Regulatory
Certification: FCC/IC/CE

Internal antenna
Frequency range: 5.1 - 5.9 GHz
Gain: 15 dBi
Polarization: Dual linear
Cross-pol Isolation: 27 dBi
VSWR: <1.4
Azimuth beamwidth (H pol): 35 deg
Azimuth beamwidth (V pol): 35 deg
Elevation beamwidth: 35 deg

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