



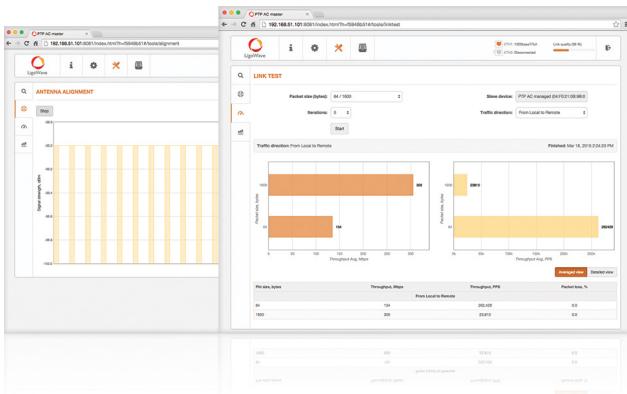
# LigoDLB 5 ac

5GHz High-Capacity Wireless Device

# 500 + Mbps

## Incredible performance

500+ Mbps throughput - a result of powerful hardware platform with 802.11ac technology based radio and a proprietary data transmission protocol (iPoll). Incorporating a QCA 9563 CPU (750MHz), a QCA 9882 radio and 64 MBytes of RAM and 16 MBytes of flash memory, the LigoDLB ac series devices are an ideal solution for capacity demanding applications. State of the art RF design with great output power and sensitivity parameters improve range and capacity over highest the modulation—256-QAM. The 24V Gigabit Ethernet port (passive PoE) allows utilizing the full capacity of the radio when used in a point-to-point or point-to-multipoint network design. LigoDLB ac series devices are backwards compatible with LigoDLB devices using iPoll mode, which helps to expand or upgrade existing networks using the latest technologies over time.



## Powerfull OS

The LigoDLB OS is a highly functional and easy to use operating system embedded in all LigoDLB hardware devices for effortless setup and trouble free operation. High performance (500Mbps) allows offering more bandwidth together with additional services such as VoIP and IPTV. This is possible when using LigoWave's smart QoS mechanism and multi-cast traffic enhancements for triple play services. Such services are essential for all next generation service providers to complement their existing portfolios. iPoll, LigoWave's proprietary transmission protocol, ensures smooth performance with a high number of clients even in noisy environments.

## Specifications

| Distance recommendation | PTMP mode         | PTP mode                       |
|-------------------------|-------------------|--------------------------------|
| LigoDLB 5ac             | Antenna dependent | Up to 20km (antenna dependent) |

### Wireless

|                      |                                                                                                                                              |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| WLAN standard        | IEEE 802.11a/n/ac, iPoLL 3                                                                                                                   |
| Radio mode           | MIMO 2x2                                                                                                                                     |
| Radio frequency band | 5,150 – 5,850GHz (FCC 5,150 – 5,250 and 5,725 – 5,850GHz)                                                                                    |
| Transmit power       | Up to 30dBm (country dependent)                                                                                                              |
| Channel size         | 5, 10, 20, 40, 80MHz                                                                                                                         |
| Modulation schemes   | 802.11a/n: OFDM (64-QAM, 16-QAM, QPSK, BPSK)<br>802.11ac: OFDM (256-QAM, 64-QAM, 16-QAM, QPSK, BPSK)                                         |
| Data rates           | 802.11ac @ 40MHz: 400, 360, 300, 270, 240, 180, 120, 90, 60, 30Mbps<br>802.11ac @ 80MHz: 866, 780, 650, 585, 520, 390, 260, 195, 130, 65Mbps |
| Error correction     | FEC, LDPC                                                                                                                                    |
| Duplexing scheme     | Time division duplex                                                                                                                         |

| 40MHz | Modulation, Mbps         | 400 | 360 | 300 | 270 | 240 | 180 | 120 | 90  | 60  | 30  |
|-------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|       | TX Power, dBm            | 26  | 27  | 28  | 29  | 30  | 30  | 30  | 30  | 30  | 30  |
|       | Receive sensitivity, dBm | -70 | -72 | -76 | -78 | -80 | -84 | -87 | -92 | -94 | -95 |
| 80MHz | Modulation, Mbps         | 866 | 780 | 650 | 585 | 520 | 390 | 260 | 195 | 130 | 65  |
|       | TX Power, dBm            | 24  | 25  | 25  | 26  | 27  | 28  | 28  | 29  | 29  | 29  |
|       | Receive sensitivity, dBm | -64 | -66 | -70 | -72 | -74 | -78 | -81 | -85 | -88 | -90 |

### Antenna

|      |                                |
|------|--------------------------------|
| Type | External N-connectors          |
| Gain | Antenna dependent (up to 20km) |

### Wired

|           |                          |
|-----------|--------------------------|
| Interface | 10/100/1000 Base-T, RJ45 |
|-----------|--------------------------|

### Physical

|            |                                                                |
|------------|----------------------------------------------------------------|
| Dimensions | Length 150mm (5.9"), width 115mm (4.5"), height 55mm (2.1")    |
| Weight     | 450g (1lb)                                                     |
| Mounting   | Combination wall / pole mount with quick swap bracket included |

### Power

|                         |                                                                     |
|-------------------------|---------------------------------------------------------------------|
| Power supply            | 24VDC passive PoE (AC to 24 VDC adapter is included in the package) |
| Power source            | 100 – 240VAC                                                        |
| Power consumption (max) | 10W                                                                 |

### Environmental

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

### Management

|                   |                                              |
|-------------------|----------------------------------------------|
| System monitoring | SNMP v3, Syslog, Web UI, Infinity Controller |
| Configuration     | WebUI, Infinity Controller                   |

### Regulatory

|               |           |
|---------------|-----------|
| Certification | FCC/IC/CE |
|---------------|-----------|



**LigoWave**

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## **LigoDLB 5ac**

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