# 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.
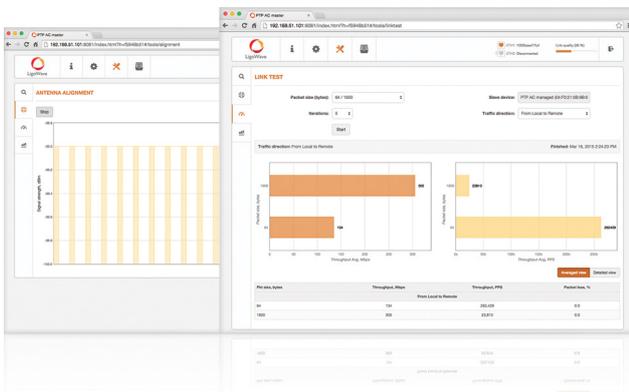
Powerfull OS

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 2×2
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)
	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
	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

www.ligowave.com