





LigoDLB ac PRO

500+ Mbps integrated antenna base-stations

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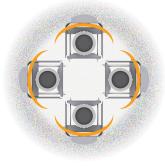
## Incredible performance

500+ Mbps throughput - the result of a powerful hardware platform with an 802.11ac technology based radio and a proprietary data transmission protocol (iPoll). Incorporating a QCA 9557 CPU (720MHz), a QCA 9882 radio and 128 MBytes of RAM/Flash memory the LigoDLBac PRO series access points are an ideal solution for resource demanding installations. State of the art RF design with great output power and sensitivity parameters improve range and capacity over the highest modulation - 256-QAM. The 48V Gigabit Ethernet port (802.3af) allows utilizing the full capacity of the base-station. LigoDLB ac series devices are backwards compatible with LigoDLB devices using iPoll mode, which helps to expand or upgrade existing networks with the latest technologies over time.



#### Solid mount

The LigoDLB PRO mounting bracket allows 15° down-tilt when doing antenna alignment. Supported pole diameters are from 25 mm (0.98 inch) to 75 mm (2.95 inches). All devices have an IP-67 enclosure and integrated surge suppression to provide best in class protection from harsh weather conditions in any climate zone.



#### Improved noise immunity

The metal enclosure works as a deflector eliminating interference caused by backlobes and rejecting noise when multiple base-stations are co-located on a single tower. Apart from RF shielding the metal housing works as a heatsink, allowing better RF performance by dissipating the heat generated by the radio.



# Integrated antenna design

The all-in-one design reduces the risk of cable failures and decreases the signal loss, as the radio is connected directly to the antenna. Such integration allows saving tower space and improves the cost which helps to speed up your ROI.

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# **Specifications**

Model name	Coverage recommendation			
LigoDLB 5-90-17ac PRO	7km (4.3mi)			
LigoDLB 5-90-20ac PRO	12km (7.5mi)			

#### Wireless

WLAN standard IEEE 802.11 a/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

# LigoDLB 5-90-17ac PRO/ LigoDLB 5-90-20ac PRO:

z	Modulation, Mbps	400	360	300	270	240	180	120	90	60	30
40MHz	TX Power, dBm	26	27	28	29	30	30	30	30	30	30
4	Receive sensitivity, dBm	-70	-72	-76	-78	-80	-84	-87	-92	-94	-95
	A4 1 1 1 1 1 A41										
N	Modulation, Mbps	866	780	650	585	520	390	260	195	130	65
80MHz	TX Power, dBm	24	780 25	650 25	585	520 27	390 28	260	195 29	130	65 29

#### **Antenna**

Type Integrated dual-polarized 90 degree sector antenna

Gain LigoDLB 5-90-17ac PRO -17dBi

LigoDLB 5-90-20ac PRO – 20dBi

Wired

Interface 10/100/1000 Base-T, RJ45 (802.3af)

Physical

Dimensions\* 574 mm (22.6 "), 114 mm (4.5 "), 46 mm (1.8 ")/ 942 mm (37.1 "), 114 mm (4.5 "), 46 mm (1.8 ")

Weight\*\* 3000 g (6.6 lb)/ 3600 g (7.94 lb)

Mounting pole mount included

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#### **Power**

Power supply 37 - 56 VDC PoE 802.3af (AC to DC adapter included)

Power source 100 – 240 VAC

Power consumption (max) 10 W

#### **Environmental**

Operating temperature  $-40^{\circ}\text{C} \ (-40 \ \text{F}) \sim +65^{\circ}\text{C} \ (+149 \ \text{F})$ Humidity  $0 \sim 90 \ \% \ (\text{non-condensing})$ 

### Management

System monitoring SNMP, Syslog, Web UI, WNMS

Configuration WebUI, WNMS

## Regulatory

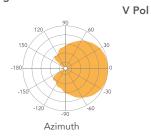
Certification FCC/IC/CE

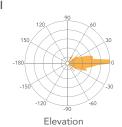
\*Dimensions exclude pole mount

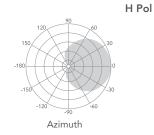
\*\*Weight includes pole mount

### Antenna specifications

### LigoDLB 5-90-17ac PRO



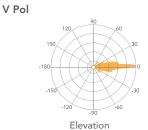




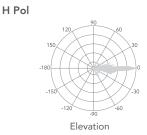


## LigoDLB 5-90-20ac PRO









Model name	LigoDLB 5-90-17ac PRO	LigoDLB 5-90-20ac PRO
Frequency range	5.1 - 5.9GHz	5.1 - 5.9GHz
Gain	17	20
Polarization	Dual linear	Dual linear
Cross-pol Isolation	24dBi	24dBi
VSWR	<1.8	<1.8
Azimuth beamwidth (H pol)	90°	90°
Azimuth beamwidth (V pol)	90°	90°
Elevation beamwidth	7°	5°

## LigoDLBac PRO

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