



LigoWave



LigoDLB PRO ac

500+ Mbps integrated antenna base-stations

500 + Mbps

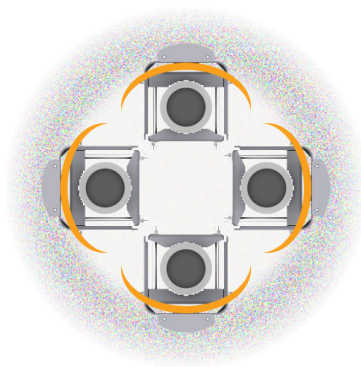
Incredible performance

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 (720 MHz), a QCA 9882 radio and 128 MBytes of RAM/Flash memory the LigoDLB PRO ac 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.

Specifications

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

Wireless

WLAN standard	IEEE 802.11 a/n/ac, iPoll 2 & 3
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 30 dBm (country dependent)
Channel size	5, 10, 20, 40, 80 MHz
Modulation schemes	802.11 a/n: OFDM (64-QAM, 16-QAM, QPSK, BPSK) 802.11 ac: OFDM (256-QAM, 64-QAM, 16-QAM, QPSK, BPSK)
Data rates	802.11 ac @ 40 MHz: 400, 360, 300, 270, 240, 180, 120, 90, 60, 30 Mbps 802.11 ac @ 80 MHz: 866, 780, 650, 585, 520, 390, 260, 195, 130, 65 Mbps
Error correction	FEC, LDPC
Duplexing scheme	Time division duplex

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

40 MHz	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
80 MHz	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	Integrated dual-polarized 90 degree sector antenna
Gain	LigoDLB PRO 5-90-17ac -17 dBi LigoDLB PRO 5-90-20ac – 20 dBi

Wired

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

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

Management

System monitoring	SNMP, Syslog, Web UI, WNMS
Configuration	WebUI, WNMS

Regulatory

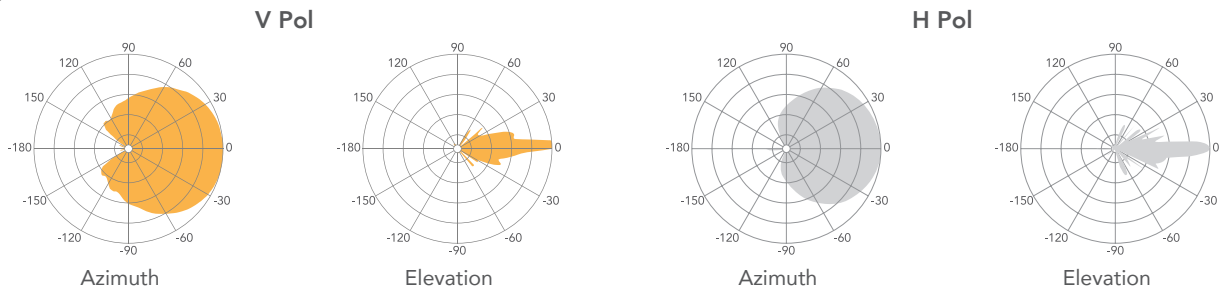
Certification	FCC/IC/CE
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*Dimensions exclude pole mount

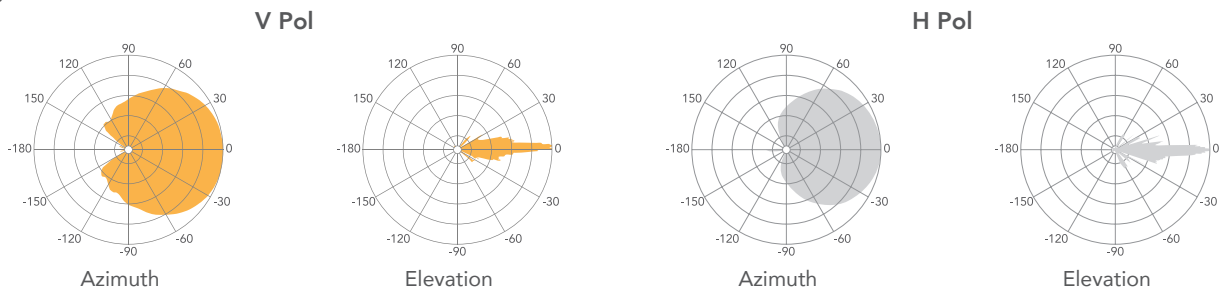
**Weight includes pole mount

Antenna specifications

LigoDLB PRO 5-90-17



LigoDLB PRO 5-90-20



Model name	LigoDLB PRO 5-90-17	LigoDLB PRO 5-90-20
Frequency range	5.1 - 5.9 GHz	5.1 - 5.9 GHz
Gain	17	20
Polarization	Dual linear	Dual linear
Cross-pol Isolation	24 dBi	24 dBi
VSWR	<1.8	<1.8
Azimuth beamwidth (H pol)	90 deg	90 deg
Azimuth beamwidth (V pol)	90 deg	90 deg
Elevation beamwidth	12 deg	8 deg

LigoDLB PRO ac