LigoWave

DLB 2-9B-TH
Outdor Wireless Device

DATASHEET

Specifications

Wireless

WLAN standard	IEEE 802.11 b/g/n, iPoll (proprietary)
Radio mode	MIMO 2x2
Radio frequency band	2.4 GHz
Transmit power	Up to 11 * dBm
Receive sensitivity	Varying between -96 and -74 dBm depending on modulation
Channel size	5,10, 20, 40 MHz
Modulation schemes	802.11 g/n: OFDM (64-QAM, 16-QAM, QPSK, BPSK)
	802.11 b: DSS (CCK, DQPSK, DBPSK)
Data rates	802.11 n: 300, 270, 240, 180, 120, 90, 60, 30 Mbps
	802.11 g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps
	802.11 b: 11, 5.5, 2, 1 Mbps
Error correction	FEC, Selective ARQ
Duplexing scheme	Time division duplex

Antenna

Type	Integrated directional panel antenna
Gain	9 * 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 150 mm (5.9 ''), width 115 mm (4.5 ''), height 55 mm (2.1 '')
Weight	450 g (16.2 oz)
Mounting	Combination wall / pole mount with quick swap bracket included

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)	6 W

Environmental

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

Management

System monitoring	SNMP v1/2c/3 server, Syslogs, system alerts via e-mail and SNMP trap

Regulatory

Certification	FCC/IC/CE

Antenna specifications

V Pol — Azimuth   V Pol — Elevation   H Pol — Azimuth   H Pol — Elevation
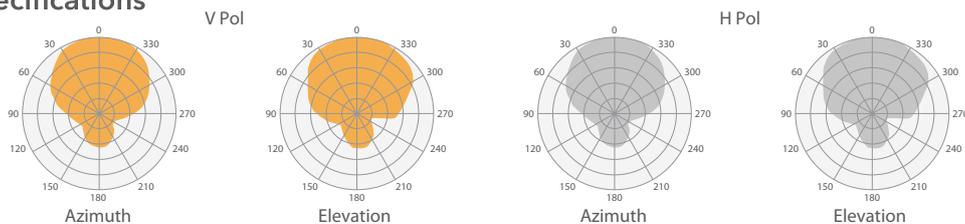
Internal antenna

Frequency range	2.4 GHz
Gain	9 * dBi
Polarization	Dual linear
VSWR	<1.5
Azimuth beamwidth (H pol)	60 deg
Azimuth beamwidth (V pol)	60 deg
Elevation beamwidth	60 deg

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