





5 GHz high-capacity wireless device

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Incredible performance

500+ Mbps thruoghput - a result of powerful hardware platform with 802.11ac technology based radio and a proprietary data transmission protocol (iPoll). Based on a QCA 9563 CPU (750 MHz), QCA 9882 radio and 64 MBytes of RAM and 16 MBytes of flash memory the, LigoDLB 5 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 modulation - 256 QAM. The 24V Gigabit Ethernet port (passive PoE) allows utilizing the full capacity of the radio when using in a point-to-point and point-tomultipoint scenario. 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 gradually.



Powerfull OS

The DLB OS is a highly functional and easy to use operating system flawless operation of all DLB hardware devices and effortless setup for those deploying the networks. High performance (500 Mbps) allows offering more bandwidth together with additional services like VoIP and IPTV using a smart QoS mechanism and muticast traffic enhancements for tripple play services, which essential for all next generation service providers complementing their portfolio with more performance and reliability requiring services. iPoll - proprietary transmission protocol ensures smooth performance with a high number of clients even in a noisy environments.

WNMS is a FREE enterprise grade Wireless Network Management System. A single software solution simplifies a large number of management and monitoring tasks for network administrators. LigoWave's comprehensive network management system supports several thousands of nodes. Multiple networks may be maintained and monitored using one server. A rich feature set helps to diagnose network problems effectively, visualize networks on a map, perform scheduled firmware upgrades automatically, track states of devices, get



failure alerts, and collect statistics. The Web-based system environment supports multi-user accounts. Several administrators may manage different networks on the same server, without having access to each other's equipment. WNMS is available as a stand-alone version for Linux and Windows servers, as a cloud-based system and as a mobile application for Android devices.

Specifications

Dista	nce recommendation		PTMP mode				PTP mode						
LigoD	DLB 5 ac		Antenna dependent					Antenna dependent					
Wire													
	l standard	IEEE 802.11 a/n/ac, iPoll 3											
	mode	MIMO 2x2											
Radio frequency band		5 GHz models: 5.150 - 5.850 GHz (FCC 5.150 - 5.250 and 5.725 - 5.850 GHz)											
nuuro	frequency band	5 6112 11	104615. 5.150	5.050 Gi	12 (1 CC 5.1	50 5.	250 4114 5.	,25 5.05	0 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											
		_											
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		
4	Receive sensitivity, dBm	-70	-72	-76	-78	-80	-84	-87	-92	-94	-95		
<u>N</u> .	Modulation, Mbps	866	780	650	585	520	390	260	195	130	65		

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

Туре	External N-connectors
Gain	Antenna dependent

Wired Interface

10/100/1000 Base-T, RJ45

Software

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 3
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	150mm (5.9"), 115mm (4.5"), 55 mm (2.1 ")
Weight	450 g (16.2 oz)
Mounting	Combination wall/pole mounting with quick swap bracket included
Power	
Power supply	24 VDC passive PoE (AC to 24 VDC adapter is included in the package)
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/C



LigoDLB 5 ac

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