

PTP Mach5ac

11ac 5GHz Outdoor PTP Wireless



Overview

The PTP Mach5ac is a 5 GHz point-to-point product with superior performance for building long distance links. This product is equipped with an extreme output power (up to 29 dBm) 802.11n radio that was created with a unique hardware design and coupled with a reliable, feature-rich operating system. This device also has a robust, IP-67 compliant enclosure which is combined with a high-gain dual-polarized panel antenna. The PTP Mach5ac is generally designed for PTP applications, but can also act as a high-end client device. Smart dynamic polling based protocol (iPoll 2) ensures reliable communication even in congested areas with 64 client devices connected to a base-station. Equipped with Alti-link's dual firmware image feature, remote software upgrades are assured even if a power failure interrupts the process. The device will restart using the prior firmware in the event of an upgrade failure. The enclosure is made of die-cast aluminum to provide years of outdoor exposure in direct sunlight and survive harsh weather conditions. Environmentally tested to meet an IP-67 rating as well as vibration, temperature, drop, salt, fog, and electrical surge standards to ensure a high level of reliability and backed by a two-year warranty. It is equipped with a grounding lug and a grounded 24-volt PoE to allow a professional installation, resistant to electrical surges.

Powerfull OS

The DLB OS is a highly functional and easy to use operating system. This powerful and flexible operating system ensures flawless operation of all DLB hardware devices and effortless setup for those deploying the networks.

- Smart polling data transmission protocol (iPoll 2)
- Dual-firmware image support
- Responsive HTML 5 based GUI
- 500 Mbps capacity
- IPv6 support
- WNMS compatible

WNMS

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. Alti-link '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.

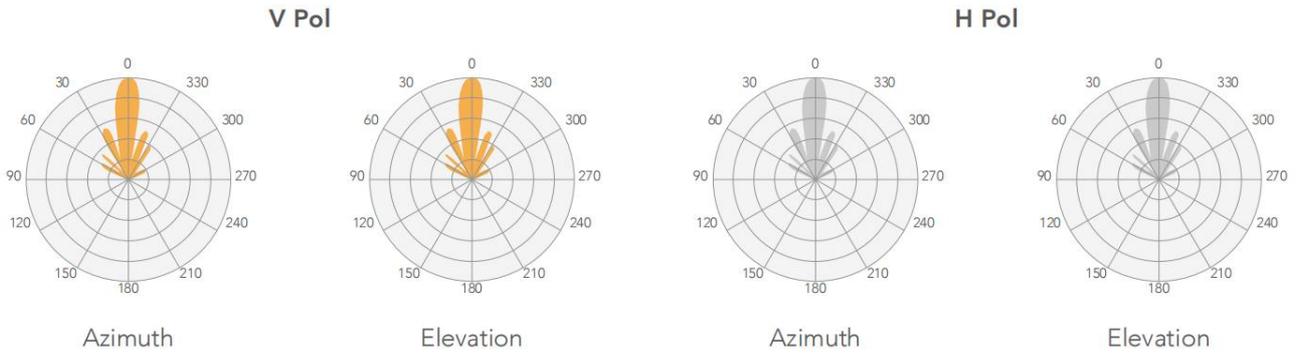
Specifications

Distance	PTP mode	PTP mode(Full capacity)
PTP Mach5ac	50 km/ 31.07 mi	10 km/ 6.21 mi

Wireless	
WLAN standard	IEEE 802.11 a/n/ac, iPoll 3
Radio mode	MIMO 2x2
Radio frequency band	5 GHz: 5.150 - 5.850 GHz (FCC 5.150 - 5.250 and 5.725 - 5.850 GHz)
Transmit power	Up to 29 dBm (country dependent)
Channel size	5, 10, 20, 40, 80 MHz
Receive sensitivity	Varying between -97 and -75 dBm depending on modulation
Modulation schemes	802.11 a/n: OFDM (64-QAM, 16-QAM, QPSK, BPSK)
Data rates	802.11 n: 300, 270, 240, 180, 120, 90, 60, 30 Mbps 802.11 a: 54, 48, 36, 24, 18, 12, 9, 6 Mbps
Error correction	FEC, Selective ARQ
Duplexing scheme	Time division duplex
Antenna	
Type Integrated	dual-polarized directional panel antenna
Gain	23 dBi
Wired	
Ethernet port	10/100/1000 Base-T, RJ45
Duplexing scheme	TDD
Physical	
Dimensions	Length 379 mm (14.9"), width 387 mm (15.2"), height 80 mm (3.15")
Weight	3.3 kg (7.3 lb)
Mounting	Combination, heavy duty wall / pole mount bracket included
Power	
Power supply	37 - 56 VDC PoE 802.3af (AC to DC adapter included)
Power source	100 - 240V AC
Power consumption	10 W
Environment	
Operating temperature	-40°C (-40 F) ~ +65°C (+149 F)
Working temperature	0 ~ 90 % (non-condensing)
Management	
System monitoring	SNMP, Syslog, Web UI, Infinity controller
Configuration	WebUI, Infinity controller
Certificate	
Certificate	Meet FCC/IC/CE standards

40MHz	Rate, Mbps	400	360	300	270	240	180	120	90	60	30
	TX power, dBm	26	27	28	29	30	30	30	30	30	30
	RX sensitivity, dBm	-70	-72	-76	-78	-80	-84	-87	-92	-94	-95
80MHz	Rate, Mbps	866	780	650	585	520	390	260	195	130	65
	TX power, dBm	24	25	25	26	27	28	28	29	29	29
	RX sensitivity, dBm	-64	-66	-70	-72	-74	-78	-81	-85	-88	-90

Antenna Specification



Antenna

Frequency range	5.1 – 5.9 GHz
Gain	23 dBi
Polarization	Dual linear
Cross-pol Isolation	27dBi
VSWR	1.51:1
Azimuth beamwidth (H pol)	6°
Azimuth beamwidth (V pol)	7°
Elevation beamwidth	9°

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