APC 2M-14





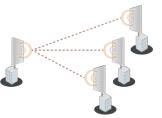
The APC 2M-14 delivers the highest performance and stability available in the 2.4 GHz CPE class. This product combines a robust IP-66 compliant enclosure with a highly advanced 802.11n radio core containing MIMO 2x2 technology along with an integrated high-gain dual polarization directional antenna. The device is powered by a reliable, advanced, and feature-rich operating system, allowing the creation of very high throughput and stable wireless networks quickly, safely, and effectively. In addition, the APC 2M-14 supports access point operating mode which extends application scenarios and makes the APC 2M-14 suited for both point to point and point to multipoint networks.

The robust software engine allows the APC 2M-14 to work as bridge or as a router, provides a user-friendly Adobe Flex - based GUI with instant changes, includes useful installation tools (Site survey, Antenna alignment, Delayed reboot, Spectrum analyzer, ping, traceroute) and also is compatible with Wireless Network Management System for one of the most advanced management tools on the market.

Usage examples

PTMP

Deliberant APC 2M-14 is an ideal device for point-to-multiple point applications as a medium to long range client device.



PTP

APC 2M-14 is a great device for medium to long range point-to-point applications.



Product/ distance recomendation	PTMP mode	PTP mode	PTP mode (full capacity)
APC 2M-14	10 km/ 6.21 mi	25 km/ 15.53 mi	3 km/ 1.86 mi

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Wireless

WLAN standard	IEEE 802.11 b/g/n, iPoll (proprietary)
Radio mode	MIMO 2x2
Operating modes	Access point auto WDS, Station, Station WDS, iPoll Access Point, iPoll Station
Radio frequency band	2.4 GHz
Transmit power	Up to 30 dBm (country dependent)
Receive sensitivity	Varying between -94 and -74 dBm depending on modulation
Channel size	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

Time division duplex

Duplexing scheme

		15 Mbps	30 Mbps	45 Mbps	60 Mbps	90 Mbps	120 Mbps	135 Mbps	150 Mbps
m) în	. <u>-</u> Su (E) 802.11 N/ Su (E) 1001 iPoll	-94	-92	-89	-86	-83	-78	-76	-74
នុង		30 Mbps	60 Mbps	90 Mbps	120 Mbps	180 Mbps	240 Mbps	270 Mbps	300 Mbps
eceive tivity (-94	-92	-89	-86	-83	-78	-76	-74
Rec tiv	802.11g	6 Mbps	9 Mbps	12 Mbps	18 Mbps	24 Mbps	36 Mbps	48 Mbps	54 Mbps
	ouz. Hy	-94	-93	-92	-90	-87	-84	-79	-77
		15 Mbps	30 Mbps	45 Mbps	60 Mbps	90 Mbps	120 Mbps	135 Mbps	150 Mbps
power m)	802.11 N/	29	28	28	28	27	26	25	24
put po (dBm)	iPoll	30 Mbps	60 Mbps	90 Mbps	120 Mbps	180 Mbps	240 Mbps	270 Mbps	300 Mbps
tput (df		29	28	28	28	27	26	25	24
Output (dB	802.11q	6 Mbps	9 Mbps	12 Mbps	18 Mbps	24 Mbps	36 Mbps	48 Mbps	54 Mbps
	002 .11g	30	29	29	29	29	29	28	27

Antenna	
Туре	Integrated dual-polarized directional panel antenna
Gain	14 dBi
Wired	
Interface	10/100 Base-T, RJ45
Networking	
Operating modes	Bridge, Router
WAN	Static IP, DHCP client, PPPoE client
NAT	Routing w/ or w/o NAT
Static routing	Supported
DHCP	Client, Server, Relay
Port forwarding	Supported
VLAN	Supported for management and data

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oftwave	

Softwave	
General	Ability to define/limit frequency, channel width, EIRP, modulation
Advanced wireless functionality	ATPC (automatic transmit power control), auto-channel, auto-modulation,
Operating mode	Router, Bridge
Wireless operating modes	AP auto WDS, Station, Station WDS, Virtual radios (VSSID), iPoll access point, iPoll client
Wireless security	WPA/WPA2 Personal, WPA/WPA2 Enterprise, WACL, User isolation, UAM (web portal authentication
Wireless QoS	WMM
WAN protocols	Static IP, DHCP client, PPPoE client
Network	NAT, static routing, firewall, port forwarding, VLAN, traffic shaping
Services	DHCP server, SNMP server, NTP client, Alerts, Remote syslog, Wireless and Ethernet statistics, bandwidth limiting
Management	HTTP(S) GUI, SSH CLI, SNMP read, WNMS, troubleshooting file, reset via reset tool
Tools	Site survey, Link test, Antenna alignment, Ping, Traceroute, Spectrum analyzer, delayed reboot
Physical	
Dimensions	Length 205 mm (8 "), width 205 mm (8 "), height 45 mm (1.7 ")
Weight	700 g (24.7 oz)
Power supply	12 - 48 V DC passive PoE
Power source	100 – 240 VAC via included adapter
Power consumption	7 W
Environmental	
Operating temperature	-40°C (-22 F) ~ +65°C (+149 F)

0 ~ 90 % (non-condensing)

Management	
System configuration	User-friendly web GUI, Command line via SSH, centralized Wireless Network Management System, reset via reset tool
System monitoring	SNMP v1/2c/3 server, Syslogs, system alerts via e-mail and SNMP trap

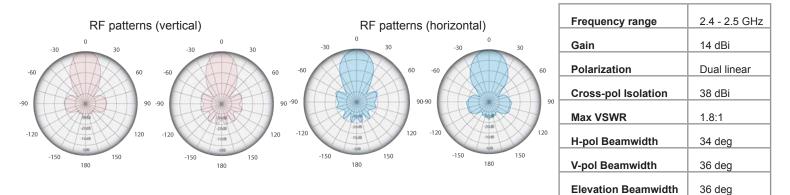
Regulatory

Certification

Humidity

FCC/CE/Safety/RoHS compliance

Antenna specifications



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