

The APC 5M is a versatile, very efficient, and stable 5 GHz access point. This product is equipped with an extreme output power (up to 29 dBm) 802.11n MIMO radio wrapped securely inside a robust IP-65 compliant enclosure with two N-type connectors, suited for wide coverage area applications. The robust hardware is coupled with an advanced and feature-rich operating system optimized for high performance communications which allows compatibility with older 802.11a standards while adding support for the latest in wireless communications. The APC 5M supports access point, station, and WDS operating modes and

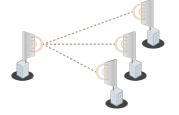
can act as bridge or as router making it one of the most flexible devices on the market.

The robust software engine running on the APC 5M provides a user-friendly Adobe Flex - based GUI with instant changes, includes useful installation tools (Site survey, Antenna alignment, Delayed reboot) 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 5M is an ideal device for point-to-multiple point applications as a basestation with and external sector or omni-directional antenna.



PTP

APC 5M is a great device for medium long range point-to-point applications with an external high-gain dual polarized anti-



nal high-gain dual polarized antenna (panel or dish).

Product/ distance recomendation	PTMP mode	PTP mode	PTP mode (full capacity)	
APC 5M	Antenna dependent	Antenna dependent	Antenna dependent	



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APC 5M



Wireless

WLAN standard IEEE 802.11 a/n, iPoll (proprietary)

Radio mode MIMO 2x2

Operating modes Access point (auto WDS), Station, Station WDS, iPoll Access Point, iPoll Station

Radio frequency band 5.1 - 5.9 GHz (country dependent - FCC 5.745 to 5.825 GHz)

Transmit power Up to 29 dBm (country dependent)

Receive sensitivity Varying between -95 and -75 dBm depending on modulation

Channel size 20, 40 MHz

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

Receive sensi- tivity (dBm)	802.11 N/ iPoll	15 Mbps	30 Mbps	45 Mbps	60 Mbps	90 Mbps	120 Mbps	135 Mbps	150 Mbps
		-93	-91	-89	-86	-83	-79	-77	-75
		30 Mbps	60 Mbps	90 Mbps	120 Mbps	180 Mbps	240 Mbps	270 Mbps	300 Mbps
		-93	-91	-89	-86	-83	-79	-77	-75
	802.11a	6 Mbps	9 Mbps	12 Mbps	18 Mbps	24 Mbps	36 Mbps	48 Mbps	54 Mbps
		-95	-94	-92	-90	-87	-84	-79	-77

Output power (dBm)	802.11 N/ iPoll	15 Mbps	30 Mbps	45 Mbps	60 Mbps	90 Mbps	120 Mbps	135 Mbps	150 Mbps
		29	29	29	29	28	28	27	27
		30 Mbps	60 Mbps	90 Mbps	120 Mbps	180 Mbps	240 Mbps	270 Mbps	300 Mbps
		29	29	29	29	28	28	27	27
	802.11a	6 Mbps	9 Mbps	12 Mbps	18 Mbps	24 Mbps	36 Mbps	48 Mbps	54 Mbps
		29	29	29	29	28	28	27	25

Antenna

Type N-connectors for external antenna

Gain Antenna dependent

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



APC 5M



Softwave

General Ability to define/limit frequency, channel width, EIRP, modulation

Advanced wireless functionality ATPC (automatic transmit power control), DFS 3, 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

Wireless QoS **WMM**

Static IP, DHCP client, PPPoE client WAN protocols

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

HTTP(S) GUI, SSH CLI, SNMP read, WNMS, troubleshooting file, reset via reset tool Management Tools

Site survey, Link test, Antenna alignment, Ping, Traceroute, Spectrum analyzer, delayed

Physical

Dimensions Length 150 mm (5.9 "), width 115 mm (4.5 "), height 55 mm (2.1 ")

Weight 400 g (16.2 oz)

Power supply 12 - 48 V DC passive PoE

Power source 100 - 240 VAC via included adapter

6.5 W Power consumption

Environmental

Operating temperature -40°C (-22 F) ~ +65°C (+149 F)

Humidity 0 ~ 90 % (non-condensing)

Management

User-friendly web GUI, Command line via SSH, centralized Wireless Network System configuration

Management System, reset via reset tool

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

Regulatory

Certification FCC/CE/Safety/RoHS compliance





