



The APC 5M-18 delivers the highest performance and stability available in the 5 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 5M-18 supports access point operating mode which extends application scenarios and makes the APC 5M-18

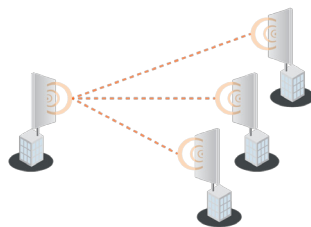
suitable for both point to point and point to multipoint networks.

The robust software engine allows the APC 5M-18 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), 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-18 is an ideal device for point-to-multiple point applications as a medium to long range client device.



PTP

APC 5M-18 is a great device for medium to long range point-to-point applications.



Product/ distance recommendation	PTMP mode	PTP mode	PTP mode (full capacity)
APC 5M-18	7 km/ 4.35 mi	20 km/ 12.43 mi	2 km/ 1.24 mi

Wireless

WLAN standard	IEEE 802.11 a/n
Radio mode	MIMO 2x2
Operating modes	Access point, Access point WDS, Client, Client WDS
Radio frequency band	5 GHz
Transmit power	Up to 29 dBm
Receive sensitivity	Varying between -94 and -70 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, STBC
Duplexing scheme	Time division duplex

Antenna

Type	Integrated directional dual-polarized panel
Gain	18 dBi

Wired

Interface	10/100 Base-T, RJ45
Built-in surge protection	Yes

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

Security

Wireless security	WEP, WPA/WPA2 Personal, WPA/WPA2 Enterprise, WMM, WACL
User isolation	Supported

Software

General	Ability to define/limit frequency, channel width, EIRP, modulation All configurations are instant changes
Operating mode	Router, Bridge
Wireless operating modes	AP, Station, AP WDS, Station WDS, Virtual radios (VSSID)
Wireless security	WPA/WPA2 Personal, WPA/WPA2 Enterprise, WACL, User isolation
Wireless QoS	WMM
WAN protocols	Static IP, DHCP client, PPPoE client
Network	NAT, static routing, firewall, port forwarding, VLAN
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 ICMP
Tools	Site survey, Link test, Antenna alignment, Ping, Traceroute, Spectrum analyzer

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	12 W

Environmental

Operating temperature	-20°C (-4 F) ~ +55°C (+131 F)
Humidity	0 ~ 90 % (non-condensing)

Management

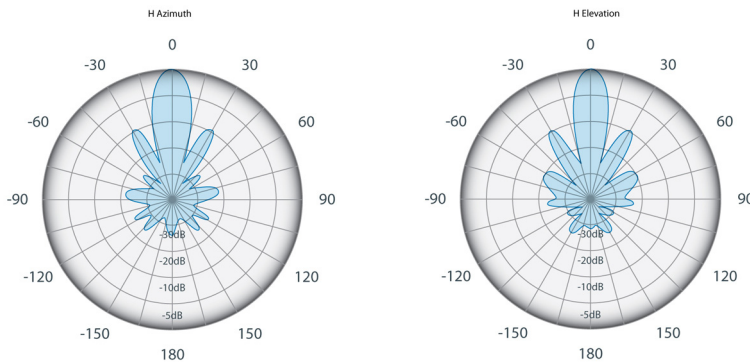
System configuration	User-friendly web GUI, Command line via SSH, centralized Wireless Network Management System, reset to defaults via special ICMP packet
System monitoring	SNMP v1/2c/3 server, Syslogs, system alerts via e-mail and SNMP trap

Regulatory

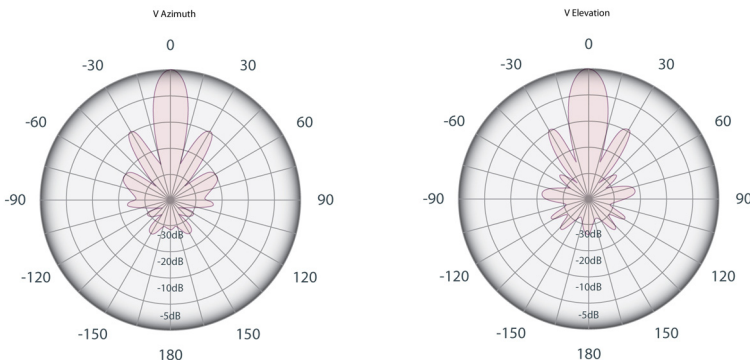
Certification	FCC/CE (*pending)
Safety	RoHS compliant

Antenna specifications

RF patterns (horizontal)



RF patterns (vertical)



Frequency range	4.9 - 5.9 GHz
Gain	18 dBi
Polarization	Dual linear
Cros-pol Isolation	27 dBi minimum
Max VSWR	1.8:1
H-pol Beamwidth	16 deg
V-pol Beamwidth	16 deg
Elevation Beamwidth	16 deg

*Note: This product has not been authorized by the rules of the Federal Communications Commission. This product may not be sold or leased, or offered for sale or lease, in the United States, until authorization has been obtained.



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