APC 5M-90



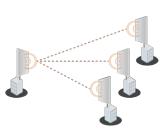
The APC 5M-90 delivers the highest performance and stability available in the 5 GHz Base Station class class. This product combines a robust IP-65 compliant enclosure with a highly advanced 802.11n radio core containing MIMO 2x2 technology along with an integrated high gain dual polarized 90° sector 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-90 supports client operating mode which extends application scenarios, but the main advantage of this model is a base station with a professional integrated antenna.

The robust software engine allows the APC 5M-90 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 5M-90 is an ideal device for point-to-multiple point applications as a powerful base station device.



PTP Not applicable.



Product/ distance recomendation	PTMP mode	PTP mode	PTP mode (full capacity)	
APC 5M-90	7 km/ 4.35 mi	N/A	N/A	



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Wireless

WLAN standard
Radio mode
Operating modes
Radio frequency band
Transmit power
Receive sensitivity
Channel size
Modulation schemes
Data rates

IEEE 802.11 a/n, iPoll (proprietary) MIMO 2x2 Access point (auto WDS), Station, Station WDS, iPoll Access Point, iPoll Station 5.1 - 5.9 GHz (country dependent - FCC 5.745 to 5.825 GHz) Up to 29 dBm (country dependent) Varying between -95 and -75 dBm depending on modulation 20, 40 MHz 802.11 a/n: OFDM (64-QAM, 16-QAM, QPSK, BPSK) 802.11 n: 300, 270, 240, 180, 120, 90, 60, 30 Mbps 802.11 a: 54, 48, 36, 24, 18, 12, 9, 6 Mbps FEC, Selective ARQ Time division duplex

Error correction Duplexing scheme

<u>.</u>		15 Mbps	30 Mbps	45 Mbps	60 Mbps	90 Mbps	120 Mbps	135 Mbps	150 Mbps
e sensi- (dBm)	802.11 N/	-93	-91	-89	-86	-83	-79	-77	-75
e se (dB	iPoll	30 Mbps	60 Mbps	90 Mbps	120 Mbps	180 Mbps	240 Mbps	270 Mbps	300 Mbps
ity		-93	-91	-89	-86	-83	-79	-77	-75
Receiv tivity	802.11a	6 Mbps	9 Mbps	12 Mbps	18 Mbps	24 Mbps	36 Mbps	48 Mbps	54 Mbps
	002.11d	-95	-94	-92	-90	-87	-84	-79	-77
		15 Mbps	30 Mbps	45 Mbps	60 Mbps	90 Mbps	120 Mbps	135 Mbps	150 Mbps
	802.11 N/	29	29	29	29	28	28	27	27

wer	802.11 N/	29	29	29	29	28	28	27	27
put pov (dBm)	iPoll	30 Mbps	60 Mbps	90 Mbps	120 Mbps	180 Mbps	240 Mbps	270 Mbps	300 Mbps
Juff		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
	002.11a	29	29	29	29	28	28	27	25

Antenna	
Туре	Integrated directional dual-polarized 90 degree sector (at 6 dB)
Gain	18 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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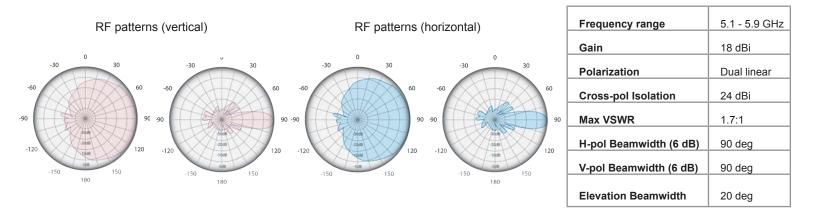


Softwave

Continuto	
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 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 430 mm (16.9 "), width 150 mm (5.9 "), height 40 mm (1.6 ")
Weight	1000 g (2.2 lb)
Power supply	12 - 48 V DC passive PoE
Power source	100 – 240 VAC via included adapter
Power consumption	6.5 W
Environmental	
Operating temperature	-40°C (-22 F) ~ +65°C (+149 F)
Humidity	0 ~ 90 % (non-condensing)
Management	
System configuration	User-friendly web GUI, Command line via SSH, centralized Wireless Network
System monitoring	Management System, reset via reset tool SNMP v1/2c/3 server, Syslogs, system alerts via e-mail and SNMP trap
Regulatory	
Certification	FCC/CE/Safety/ RoHS

Antenna specifications







www.deliberant.com

