

The APC 2S-20 presents a 2.4GHz CPE product with superior performance building long distance links. This product is equipped with an extreme output power (up to 31 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-65 compliant enclosure which is combined with a high-gain grid antenna, and emits EIRP up to 125 W. The APC 2S-20 is generally designed for CPE applications but can also act as an access point thus allowing point to point network

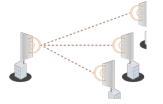
applications.

The included, robust software engine allows the APC 2S-20 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 2S-20 is an ideal device for point-to-multiple point applications as a medium to long range client device.



PTP

APC 2S-20 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 2S-20	15 km/ 9.32 mi	40 km/ 24.86 mi	7 km/ 4.35 mi	





APC 25-20



Wireless

WLAN standard IEEE 802.11 b/g/n, iPoll (proprietary)

Radio mode SiSo 1x1

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

Radio frequency band 2.4 GHz

Transmit power Up to 31 dBm (country dependent)

Receive sensitivity Varying between -95 and -75 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: 150, 135,120, 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
Duplexing scheme Time division duplex

Receive sensi- tivity (dBm)	802.11N/ iPoll	15 Mbps	30 Mbps	45 Mbps	60 Mbps	90 Mbps	120 Mbps	135 Mbps	150 Mbps
		-94	-91	-89	-86	-83	-78	-77	-75
	802.11g	6 Mbps	9 Mbps	12 Mbps	18 Mbps	24 Mbps	36 Mbps	48 Mbps	54 Mbps
		-95	-94	-92	-90	-88	-84	-80	-78
	802.11b	1 Mbps	2 Mbps	5.5 Mbps	11 Mbps	-	-	-	-
_ E	002.110	-95	-95	-95	-93	-	-	-	-

wer	802.11N/ iPoll	15 Mbps	30 Mbps	45 Mbps	60 Mbps	90 Mbps	120 Mbps	135 Mbps	150 Mbps
		30	30	30	30	28	28	28	26
t pow Bm)	000 44	6 Mbps	9 Mbps	12 Mbos	18 Mbos	24 Mbps	36 Mbps	48 Mbps	54 Mbps
Ind:	802.11g	31	31	31	31	31	31	29	29
Output (dB	802.11b	1 Mbps	2 Mbps	5.5 Mbps	11 Mbps	-	-	-	-
		27	27	27	27	-	-	-	-

Antenna

Type Integrated high-gain grid antenna

Gain 20 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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APC 25-20



Softwave

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

ATPC (automatic transmit power control), auto-channel, auto-modulation, Advanced wireless functionality

Operating mode Router, Bridge

Wireless operating modes AP auto WDS, Station, Station WDS, Virtual radios (VSSID), iPoll access point, iPoll client

WPA/WPA2 Personal, WPA/WPA2 Enterprise, WACL, User isolation, UAM (web portal authentication) Wireless security

Wireless QoS WMM

Static IP, DHCP client, PPPoE client WAN protocols

Network NAT, static routing, firewall, port forwarding, VLAN, traffic shaping

DHCP server, SNMP server, NTP client, Alerts, Remote syslog, Wireless and Services

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 of grid reflector Length 430 mm (16.93 "), width 640 mm (25.2 "), height 130 mm (5.12 ")

Lenght of antenna feed 640 mm (25.2 ") Weight 2.2 kg (77.6 oz)

12 - 24 V DC passive PoE Power supply

Power source 100 - 240 VAC via included adapter

Environmental

4.5 W Power consumption

-40°C (-22 F) ~ +65°C (+149 F) Operating temperature Humidity 0 ~ 90 % (non-condensing)

Management

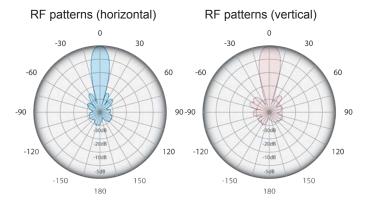
System configuration User-friendly web GUI, Command line via SSH, centralized Wireless Network Management System, reset via reset tool SNMP v1/2c/3 server, Syslogs, system alerts via e-mail and SNMP trap

System monitoring

Regulatory

Certification FCC/CE/Safety/ RoHs compliance

Antenna specifications



Frequency range	2.4 - 2.5 GHz
Gain	20 dBi
Polarization	Single linear
Max VSWR	1.7:1
Beamwidth	16 deg
Deanwidth	10 deg
Elevation Beamwidth	17 deg





