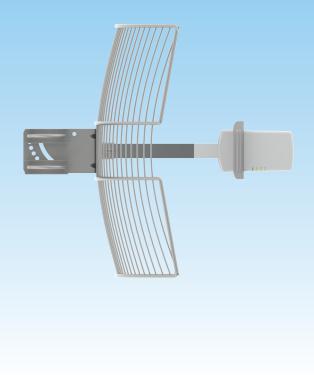
## APC 25-20







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
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: 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, STBC

Time division duplex

Duplexing scheme

FUNCTION

	802.11N/	15 Mbps	30 Mbps	45 Mbps	60 Mbps	90 Mbps	120 Mbps	135 Mbps	150 Mbps
sensi IBm)	iPoll	-94	-91	-89	-86	-83	-78	-77	-75
e sens (dBm)	802.11g	6 Mbps	9 Mbps	12 Mbps	18 Mbps	24 Mbps	36 Mbps	48 Mbps	54 Mbps
	ou2.11g	-95	-94	-92	-90	-88	-84	-80	-78
Receiv tivity	802.11b	1 Mbps	2 Mbps	5.5 Mbps	11 Mbps	-	-	-	-
	002.110	-95	-95	-95	-93	-	-	-	-
<u> </u>	802.11N/	15 Mbps	30 Mbps	45 Mbps	60 Mbps	90 Mbps	120 Mbps	135 Mbps	150 Mbps
power 8m)	iPoll	30	30	30	30	28	28	28	26
put pov (dBm)	802.11g	6 Mbps	9 Mbps	12 Mbos	18 Mbos	24 Mbps	36 Mbps	48 Mbps	54 Mbps
(dl	002.TTY	31	31	31	31	31	31	29	29
Output   (dB	802.11b	1 Mbps	2 Mbps	5.5 Mbps	11 Mbps	-	-	-	-
	002.110	27	27	27	27	-	-	-	-

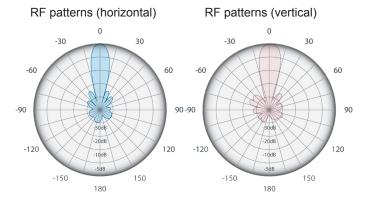
Antenna		
Туре	Integrated high-gain grid antenna	
Gain	20 dBi	
Wired		
Interface	10/100 Base-T, RJ45	
Built-in surge protection	Yes	
Networking		
Operating modes	Bridge, Router	
WAN	Static IP, DHCP client, PPPoE client	
NAT	Routing w/ or w/o NAT	
Static routing	Supported	
DHCP	Client, Server, Relay	
Port forwarding	Supported	
VLAN	Supported for management and data	

## APC 25-20



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, Station, AP WDS, 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 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)		
Power supply	12 - 24 V DC passive PoE		
Power source	100 – 240 VAC via included adapter		
Environmental			
Power consumption	4.5 W		
Operating temperature	-40°C (-22 F) ~ +75°C (+167 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 (*pending)		
Safety	RoHS compliant		

#### Antenna specifications



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





# www.deliberant.com

