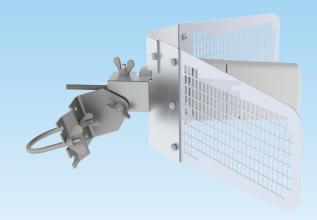
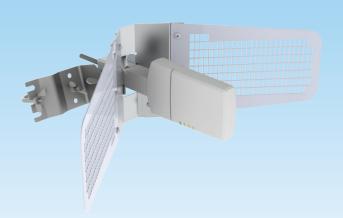
## APC 25-14







The APC 2S-14 presents a 2.4GHz CPE product with superior performance and flexibility. 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 small device also has a robust, IP-65 compliant enclosure which is combined with a medium gain corner reflector, and emits EIRP up to 35 W. The APC 2S-14 is generally designed for CPE applications but can also act as an access point thus allowing point to point and point

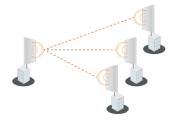
to multipoint network applications.

The included, robust software engine allows the APC 2S-14 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 2S-14 is an ideal device for point-to-multiple point applications as a short to medium range client device.



#### **PTMP**

APC 2S-14 is a great device for short of medium range point-to-point applications.



Product/ distance recomendation	PTMP mode	PTP mode	PTP mode (full capacity)
APC 2S-14	10 km/ 6.21 mi	30 km/ 18.64 mi	4 km/ 2.49 mi



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# APC 25-14



### **Wireless**

WLAN standard IEEE 802.11 b/g/n

Radio mode SiSo 1x1

Operating modes Access point, Access point WDS, Client, Client WDS

Radio frequency band 2.4 GHz
Transmit power Up to 31 dBm

Receive sensitivity Varying between -94 and -70 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 FEC, Selective ARQ, STBC

Error correction FEC, Selective ARQ,
Duplexing scheme Time division duplex

	802.11N/	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
e sensi- (dBm)	iPoll	-94	-91	-89	-86	-83	-78	-77	-75
dB (dB	902.44~	6 Mbps	9 Mbps	12 Mbos	18 Mbos	24 Mbps	36 Mbps	48 Mbps	54 Mbps
eive ity (	9 S 802.11g	-95	-94	-92	-90	-88	-84	-80	-78
Receive tivity	802.11b	1 Mbps	2 Mbps	5.5 Mbps	11 Mbps	-	-	-	-
	002.110	-95	-95	-95	-93	-	-	-	-

Output power (dBm)	802.11N/ iPoll	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
		30	30	30	30	28	28	28	26
	802.11g	6 Mbps	9 Mbps	12 Mbos	18 Mbos	24 Mbps	36 Mbps	48 Mbps	54 Mbps
		31	31	31	31	31	31	29	29
	802.11b	1 Mbps	2 Mbps	5.5 Mbps	11 Mbps	-	-	-	-
		27	27	27	27	-	-	-	-

## **Antenna**

Type Integrated directional or sector antenna
Gain 14 dBi (directional) or 10 dBi (sector)

## 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



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# APC 25-14



#### Softwave

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 248 mm (9.76 "), width 211 mm (8.3 "), height 100 mm (3.9 ")

Weight 500 g (17.6 oz)

Power supply 12 - 24 V DC passive PoE

Power source 100 – 240 VAC via included adapter

Power consumption 4.5 W

#### **Environmental**

Operating temperature  $-20^{\circ}\text{C}$  (-4 F)  $\sim +55^{\circ}\text{C}$  (+131 F) Humidity  $0 \sim 90 \%$  (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

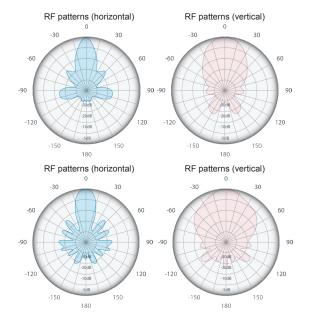
System monitoring SNMP v1/2c/3 server, Syslogs, system alerts via e-mail and SNMP trap

Certification FCC/CE (\*pending)

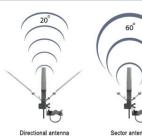
## Regulatory

Safety RoHS compliant

## **Antenna specifications**



Frequency range	2.4 - 2.5 GHz
Gain (reflector/ no reflector)	14 dBi/ 10 dBi
Polarization	Dual linear
Cros-pol Isolation	40 dBi minimmum
Max VSWR	1.8:1
Beamwidth with reflector	20 deg
Beamwidth without reflector	54 deq
Elevation Beamwidth	50 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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