

## Overview

- Outdoor CCTV Backhaul/Connectivity –
- Live and recorded video via CCTV feeds
- Building to Building link – Networking between two buildings, linking buildings, for permanent or redundancy purposes
- Internet Backhaul
- WISP Last mile connectivity
- Agricultural data analytics
- Laser Link Backup
- Internet connectivity for temporary sites
- Lease line replacement
- Difficult terrain preventing you from running cable
- Smart city infrastructure – no need to dig up ground to fix fiber lines
- Link Audio visual gear during events
- Setting up affordable and fast internet access (Wireless ISP) to your town (where XDSL is not available)



WIRELESS	
WLAN standard	IEEE 802.11 a/n/ac, TDD
Radio mode	MIMO 2x2
Radio frequency band	5 GHz models: 5.150 - 5.850 GHz (FCC 5.150 - 5.250 and 5.725 - 5.850 GHz)
Transmit power	Up to 30 dBm (country dependent)
Channel size	5, 10, 20, 40, 80 MHz
Modulation schemes	802.11 a/n: OFDM (64-QAM, 16-QAM, QPSK,BPSK) 802.11 ac: OFDM (256-QAM, 64-QAM, 16-QAM, QPSK,BPSK)
Data rates	802.11 ac @ 40 MHz: 400, 360, 300, 270, 240, 180, 120, 90, 60, 30 Mbps 802.11 ac @ 80 MHz: 866, 780, 650, 585, 520, 390, 260, 195, 130, 65 Mbps
Error correction	FEC,LDPC
Duplexing scheme	Time division duplex

**Antenna**

Type: integrated dual-polarized directional panel antenna

Gain: 15dBi

**Wired**

Interface: 10/100/1000 Base-T, RJ45

	Modulation, Mbps	400	360	300	270	240	180	120	90	60	30
40MHz	TXPower, dBm	26	27	28	29	30	30	30	30	30	30
	Receive sensitivity, dBm	-70	-72	-76	-78	-80	-84	-87	-92	-94	-95
80MHz	Modulation, Mbps	866	780	650	585	520	390	260	195	130	65
	TXPower, dBm	24	25	25	26	27	28	28	29	29	29
	Receive sensitivity, dBm	-64	-66	-70	-72	-74	-78	-81	-85	-88	-90

**Software**

Wireless operating modes : Access point (auto WDS), access point (TDD), station (WDS, TDD), station (ARP NAT)

Wireless techniques: Smart station polling, smart auto-channel, adaptive auto modulation, automatic transmit power control (ATPC)

Wireless security: WPA/WPA2 personal, WPA/WPA2 enterprise, WACL, user isolation

Wireless QoS: 4 queues prioritization on iPoll 2

Network operating modes: Bridge, router IPv4, router IPv6

Network techniques: Routing with and without NAT, VLAN

WAN protocols: Static IP, DHCP client, PPPoE client

Services: DHCP server, SNMP server, NTP client, router advertisement daemon, ping watchdog

Management: HTTP(S) GUI, SSH, SNMP read, WNMS, Telnet

Tools: Site survey, link test, antenna alignment

**Physical**

Dimensions: 158 mm (6.2 "), 97 mm (3.8 "), 38 mm (1.5 ")

Weight : 185 g (0.4lb)

Mounting: Pole Mounting bracket included

**Power**

Power supply: 24 VDC passive PoE (AC to 24 VDC adapter is included in the package)

Power source: 100 – 240 VAC

Power consumption (max): 10 W

**Environmental**

Operating temperature : -40°C (-40 F) ~ +65°C (+149 F)

Humidity: 0 ~ 90 % (non-condensing)

## Management

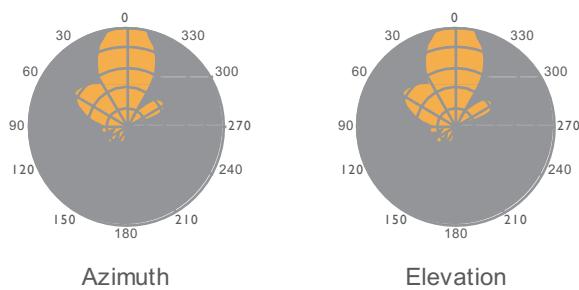
System monitoring: SNMP v1/2c/3 server, Syslogs, system alerts via e-mail and SNMP trap

## Regulatory

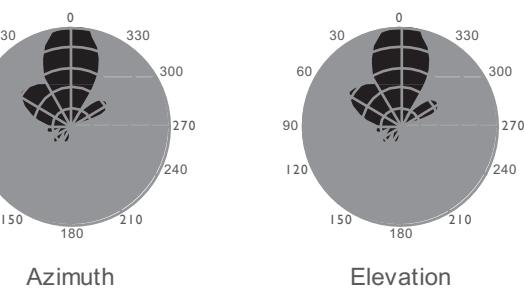
Certification: FCC/IC/CE

## Antenna Specifications

V Pol



H Pol



## Internal Antenna

Frequency range	5.1 - 5.9GHz
Gain	15 dBi
Polarization	Dual linear
Cross-pol Isolation	27 dBi
VSWR	<1.4
Azimuth beamwidth (H pol)	35 deg
Azimuth beamwidth (V pol)	35 deg
Elevation beamwidth	35 deg