

Specifications for Point to Multipoint Wireless Ethernet

RF Section

Power Output	50 W EIRP @ 5.8 GHz (maximum)
Transmitting Frequency	5.725 ~ 5.825 GHz (U-NII-3 / ISM)
Channel Capacity	5 non-overlapping channels 5.8 GHz Band - 5745, 5765, 5785, 5805, 5825
Modulation	OFDM
Latency	<10 milliseconds
Receiver Sensitivity	-82dBm for maximum data rate
Polarization	Linear, horizontal or vertical
Antenna Type & Gain	Small patch, 5.8dBi @ 5.8 GHz 6x6 patch, 16.7dBi @ 5.8 GHz Small patch in 18" dish, 24dBi @ 5.8 GHz
Beam Width	Small patch -90°, 6x6 patch -24° & 46cm/18" dish -8°
Data Throughput Rate	Up to 20+ Mbps - std mode, 50+ Mbps - turbo mode (2 channels maximum)
FCC ID	JRRWES
Industry Canada	4887A - WES

Mechanical

Physical	Environmental, sealed, billet aluminum, powder coated housing with UV stabilized PVC radome
Dimensions	91mm x 91mm x 44mm (3.6" x 3.6" x 1.75")
Weight	431g (15.2 oz)

Power

Power Requirements	12 - 20 VDC @ 3 W (Reverse voltage protected)
Power Method	Power-over-Ethernet (PoE) via power injector module ("mid-span" compliant - pins 4,5 positive - pins 7,8 ground)
Connector	RJ45 - in and out of power injection box
Cable Specifications	100m (328 feet) on 24 AWG CAT- 5 cable

Environmental

Humidity	95% non-condensing ⁽²⁾
Operating Temperature	-40° ~ +66° C (-40° ~ +150° F)

Management

Interface	10 / 100 Base T, half/full duplex, rate auto negotiated (802.3 compliant)
Frequency Selection	Rotary switch - channels 0 - 7
Web Browser Interface	User ID/Password, Super Mode, IP Address, WPA2 AES and WEP Encryption
Access Method	Time division duplexing / Time division multiple access (TTD / TDMA)
Protocols Used	IPV4, UDP, TCP, ICMP, Telnet, HTTP, FTP, SNMP
Network Management	HTTP

Part Numbers

	Antenna Type	Approximate Transmission Distance ⁽¹⁾
WAPOM	Radio w/ integrated dipole omni-directional antenna	Determined by client/subscriber unit
WAP	Radio w/ integrated directional patch antenna	Determined by client/subscriber unit
WSUOM	Radio w/ integrated dipole omni-directional antenna	0 ~ 150m (500 ft)
WSU	Radio w/ integrated directional patch antenna	0 ~ 760m (2500 ft)
WSUP	Radio w/ integrated directional 6x6 patch antenna	0 ~ 1.6km (1 mile)
WSUDI	Radio w/ integrated directional patch antenna mounted in 46cm / 18" parabolic dish antenna	0 ~ 9.7km (6 miles)

Each Module consists of a radio with integrated antenna (unless otherwise indicated). Each module comes with a pole/wall mount bracket and hardware, PoE (power injection module) and power supply.

1. Transmission distance is provided for reference only and cannot be taken as an absolute figure. Distances apply when used with directional antennas (WAP).

2. The WAPOM must be housed in a weatherproof enclosure (SWE-O)

Power Injection Module Specifications

Mechanical

Physical	Plastic housing, not weatherproof
Dimensions	26mm x 54mm x 41mm (1.0" x 2.125" x 1.625")
Weight	31g (1.1 oz)
Interface	2 - RJ45 connectors

Environmental

Humidity	Not weatherproof, PIM unit must be enclosed
Operating Temperature	-29° ~ +66° C (-20° ~ +150° F)

Power

Power Supply	120 VAC, 50/60Hz, 10 W input 12 VDC 500 mA output (UL / cUL listed wall transformer supplied)
Power-over-Ethernet (PoE)	PoE "mid-span" compliant (pins 4,5 positive - pins 7,8 ground)
Indicator	LED - green
Connectors	DC Jack 2.5mm x 5.5mm center positive, 2 - RJ45

Due to ongoing technological improvements, product specifications are subject to change without notice.