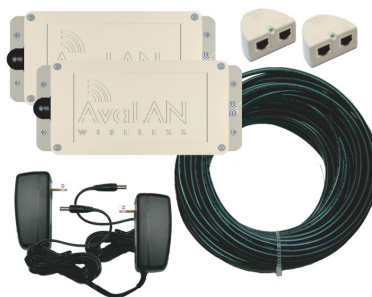


The definitive 1.54 Mbps wireless line-of-sight 5.8 GHz point-to-point Ethernet bridge.

The AW5800x replaces costly wiring with a wireless Ethernet bridge that can enable remote Wi-Fi APs, Ethernet pan/tilt/zoom security cameras, VoIP phones or Internet Kiosks. AvaLAN's product offers the ideal combination of price, range, data rate, security, interference avoidance, quality-of-service and ease-of-use.



**AW5800x Kit - \$999 (MSRP)**

Long-range 5.8 GHz wireless outdoor Ethernet bridge. Includes:

- (2) AW5800x NEMA4x radios
- (2) 110 - 220 VAC - 9 VDC power supplies
- (2) Power over Ethernet Injectors
- (2) 30-ft. outdoor-grade CAT-5 Ethernet Cables
- (2) wall mounting kits.

[requires antennae - use with AW5-5800 or AW23-5800 sold separately]

## Features:

- High RF output power and exceptional receive sensitivity provides ultra long range wireless Ethernet bridging up to 30 miles.
- Does not interfere with Wi-Fi networks.
- 128bit encrypted with dynamic private keys
- Solar ready low power consumption < 1.8Watt typical usage.
- Highest Quality of Service (QoS) available - Synchronous point to point protocol enables applications that require low data latency and jitter (ex. surveillance video and VIOP).
- Simple plug and play - pre-configured as matched pairs with no user programming required.
- 58 non-overlapping channels with frequency agility to avoid interference.
- Operates in the 5.725 - 5.850GHz band and does not require an FCC license to operate or install.



\*Shown with optional AW23-5800 purchased separately.

## The Best Solution When:

- A Broadband Ethernet drop will cost too much or is impractical to install.
- 900Mhz and 2.4Ghz are saturated due to interference. (Airport/Campus/Mall/City)
- Guaranteed DSL-rate throughput is required. (Kiosks/Wi-Fi APs/PTZ Cameras)
- Guaranteed latency for voice or video is required. (VoIP/PTZ Cameras)
- Ultra low current consumption is required. (1 Watt - Solar powered systems)

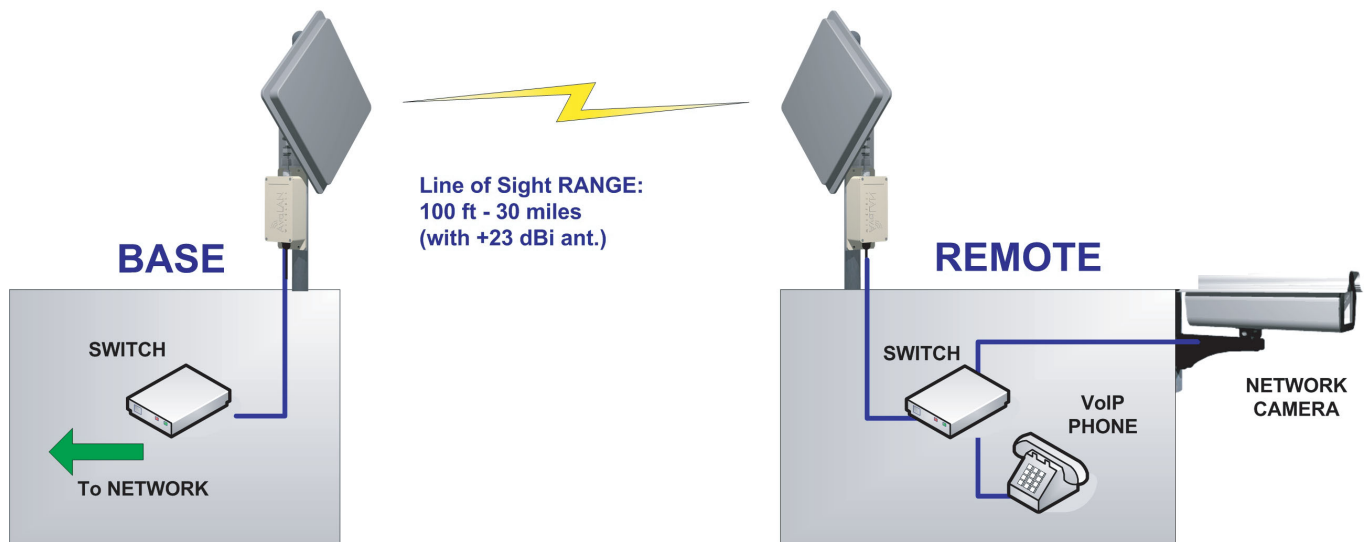
## Range:

### Line-of-Sight Range:

30+ miles with AW23-5800 +23dBi directional antennae - **recommended**  
2 miles with AW5-5800 +5dBi omni-directional antennae



# Application:



# Technical Specifications:

Characteristic	Specification - description (typical)
RF transmission rate:	1.563 Mb/s
Ethernet Throughput:	1.01 Mb/s
Output power:	+20dBm (20 Watts EIRP used with 23dBi antennae AW23-5800)
Receive sensitivity:	-98dBm at 10e-4 BER (-121dBm with 23dBi antennae AW23-5800)
Radio link budget:	128dB with 5dBi antenna AW5-5800 164dB with 23dBi antennae AW23-5800
Line of Sight Range:	1 Miles Line of Sight with 5dBi antenna AW5-5800 40 miles Line of Sight with 23dBi antennae AW23-5800
Radio channels/bandwidth:	58 Non-overlapping with 2.0833MHz spacing and 1.75MHz occupied bandwidth.
Automatic frequency select:	Yes - radio channel automatically selected and adaptively optimized
Connector types:	RF RPTNC Female / Ethernet RJ45 10BaseT / Power Jack P5-2.1mm ID
Status LEDs:	Power, Ethernet Link, RF RX, RF TX, 6/Channel and 6/Link Quality
Error correction technique:	Sub-block error detection and retransmission.
Regulator type:	Switching Regulator
Power consumption:	Transmit - 1.8W Receive - 1.0W
Voltage:	9-48VDC at P5 power jack (center positive).
Temperature range:	-40°C to 70°C
Transmit current draw:	220mA at 9VDC, 150mA at 12VDC or 28mA at 48VDC
Power over Ethernet:	Includes injectors/power supplies - 802.3af compliant.
Size:	200 x 80 x 55 mm

# Ordering Information:

Part	Price	Description	Contents
AW5800x	MSRP \$999	Outdoor Long Range Wireless Ethernet Kit	2 Radios, 2 power supplies, 2 POE injectors, 2 30ft outdoor grade CAT5 cables.
AW23-5800	MSRP \$129	23 dBi Antenna	23 dBi Antenna for 5.8 GHz Frequencies - Includes wall mount, RPTNC pigtail

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Designed, manufactured & assembled in the USA.

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