

## 5.8 GHz Outdoor Wireless Ethernet Radios up to 800 Mbps



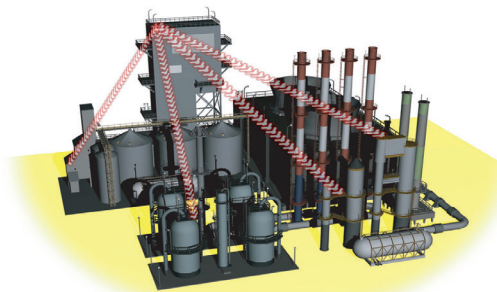
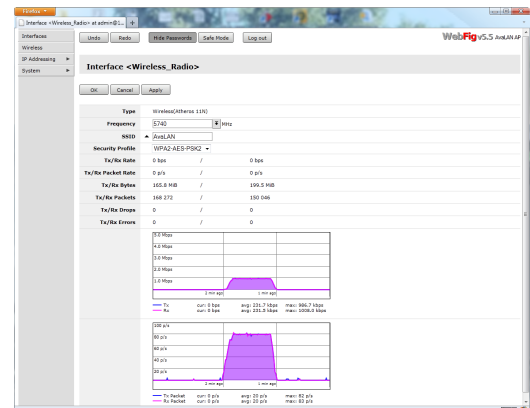
These products allow you to build line-of-sight, point-to-point or point-to-multipoint wireless Ethernet connections that link “fringe” IP devices, such as video surveillance cameras or other devices needing robust and secure high data rates.

The radios are packaged in rugged and weatherproof diecast aluminum enclosures and are available in both directional and omnidirectional antenna configurations. Utilizing MIMO (multiple input, multiple output) technology, the AW58800 product line achieves very high data rate through a combination of multiple spatial streams and higher level OFDM modulation. The AW58800HTS/ AW58800HTP-PAIR directional flat panel antenna provides dual polarized 23dBi gain units and is intended to serve in point-to-point bridge configurations or as a subscriber unit in point-to-multipoint connections. The AW58800HTA omnidirectional unit provides two 9 dBi gain antennas and is designed to serve as the common access point in point-to-multipoint applications.

## Features

- Maximum legal transmit power - 1 Watt
- LEDs showing signal quality, Ethernet link, network activity and power
- Built in lightning arrestors
- Line-of-sight range up to 30 miles for AW58800HTP-PAIR, 5 miles for HTA/HTS point-to-point configuration
- Up to 540 Mbps Ethernet data rate to support high resolution cameras
- Data Security provided by AES encryption
- Browser interface for easy configuration and link status monitoring
- Rugged outdoor enclosure meets IP66 Standard

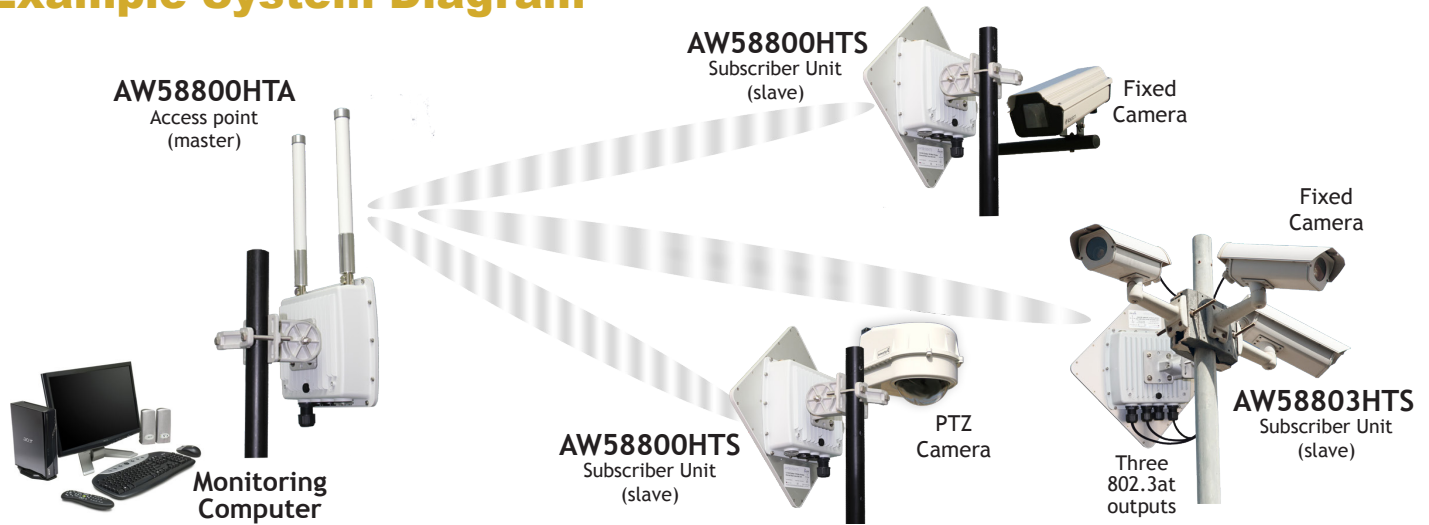
Screen Capture:  
Web Browser-based  
Management Tools



Application Example:

Point-to-multipoint wireless system transmitting line-of-sight Ethernet video data across an industrial plant

## Example System Diagram



## Technical specifications

CHARACTERISTIC	SPECIFICATION/DESCRIPTION
RF transmission rate	866 Mbps
Ethernet data rate	Up to 540 Mbps
Output power AW58800HTA Access Point	4 Watts EIRP with 9 dBi omnidirectional antenna
Output power AW58800HTS Subscriber Unit	4 Watts EIRP with 23 dBi directional antenna
Output power AW58800HTP-PAIR Bridge (each unit)	200 Watts EIRP with 23 dBi directional antennas
Power Consumption	17 Watts Maximum
Receiver Sensitivity	-115 dBm for HTS and HTP configurations, -101 dBm for the HTA
Frequency Range	5.150-5.250 GHz and 5.725 - 5.850 GHz
Channel Bandwidth	80 MHz
RF channels	2 Non-Overlapping with 80 MHz Channel Bandwidth
Modulation	OFDM (BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM)
Range	Line-of-sight range up to 30 miles for AW58800HTP-PAIR Bridge, 5 miles for HTA/HTS point-to-point
Browser Management Tools	QoS Statistics, Network Settings, Channel Selection
Data Security	128-bit AES-CCM
Operating Environment	-40°C to +70°C, IP66, sealed for outdoor operation: die cast aluminum package with rubber gasket seals
Mounting	Heavy Duty Pole-Mount Bracket included
Connector	10/100/1000 base T Ethernet RJ-45 with weatherproof sealing gland
Power System	Power Over Ethernet 24 VDC Injectors included: 100-240 VAC 50/60Hz primary source
AW58800HTA Antennas	Omnidirectional, 9 dBi gain in horizontal plane, 16" long
AW58800HTA Size	8.75" Square by 3.25" case plus 16" tall antenna, weight 7 lbs
AW58800HTS, HTP Antenna	Integrated 23 dBi flat panel, 13" square, 3 dB Beamwidth 10°
AW58800HTS, HTP Size	13" by 13" by 3.25", not including pole-mount bracket, weight 7 lbs
Warranty	1 Year Parts & Labor, XTRa-Care Extended Warranty 2 Year Extension available
Certification	FCC, IC

## Ordering Information

AW58800HTA	AW58800HTS	AW58800HTP-PAIR
5.8 GHz Outdoor 800 Mbps Wireless Ethernet Access Point	5.8 GHz Outdoor 800 Mbps Wireless Ethernet Subscriber Unit	5.8 GHz Outdoor 800 Mbps Wireless Ethernet Bridge
Includes: (1) AW58800HTA Radio (1) Heavy Duty Pole-Mount Bracket (1) AW-POE-GIG Power Over Ethernet Injector (1) AW-24VPS Power Supply	Includes: (1) AW58800HTS Radio (1) Heavy Duty Pole-Mount Bracket (1) AW-POE-GIG Power Over Ethernet Injector (1) AW-24VPS Power Supply	Includes: (1) AW58800HTP-AP Access Point Radio (1) AW58800HTP-SU Subscriber Unit Radio (2) Heavy Duty Pole-Mount Brackets (2) AW-POE-GIG Power Over Ethernet Injectors (2) AW-24VPS Power Supplies

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