5.8 GHz Outdoor Wireless Ethernet Radios up to 100 Mbps

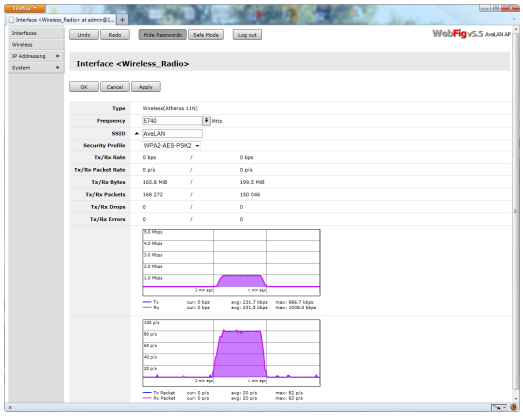
These products allow you to build line-of-sight, point-to-point or point-to-multipoint wireless Ethernet connections that link “fringe” IP devices, such as video surveillance cameras or other devices needing robust and secure high data rates.

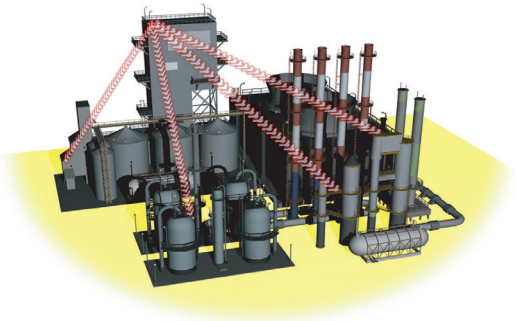
The radios are packaged in rugged and weatherproof diecast aluminum enclosures and are available in both directional and omnidirectional antenna configurations. Utilizing MIMO (multiple input, mulitple output) technology, the AW58100 product line achieves very high data rate through a combination of multiple spacial streams and higher level OFDM modulation. The AW58100HTS/ AW58100HTP-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 AW58100HTA omnidirectional unit provides two 9 dBi gain antennas and is designed to serve as the common access point in point-to-multipoint applications.

Features

- NEW: Maximum legal transmit power - 1 Watt
- NEW: LEDs showing signal quality, Ethernet link, network activity and power
- NEW: Built in lightning arrestors
- Line-of-sight range up to 30 miles for AW58100HTP-PAIR, 5 miles for HTA/HTS point-to-point configuration
- Up to 60 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

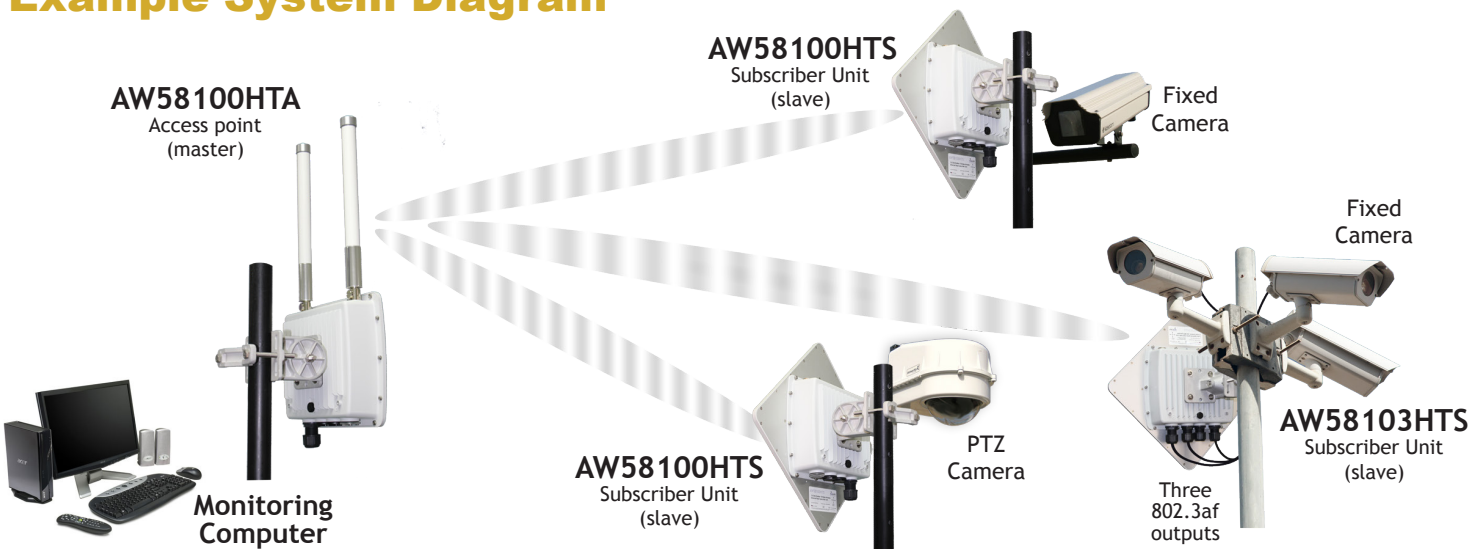




Application Example:

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	100 Mbps
Ethernet data rate	Up to 60 Mbps
Output power AW58100HTA Access Point	4 watts EIRP with 9 dBi omnidirectional antenna
Output power AW58100HTS Subscriber Unit	4 watts EIRP with 23 dBi directional antenna
Output power AW58100HTP-PAIR Bridge (each unit)	200 watts EIRP with 23 dBi directional antennas
Power Consumption	10 watts
Receiver Sensitivity	-115 dBm for HTS and HTP configurations, -101 dBm for the HTA
Frequency Range	5.725 - 5.850 GHz and 5.150-5.250 GHz
Channel Bandwidth	20 MHz
RF channels	9 Non-Overlapping with 40 MHz Channel Bandwidth
Modulation	OFDM (BPSK, QPSK, 16-QAM, 64-QAM)
Range	Line-of-sight range up to 30 miles for AW58100HTP-PAIR Bridge, 5 miles for HTA/HTS point-to-point
Browser Management Tools	QoS Statistics, Network Settings, Channel Selection
Data Security	AES Encryption
Operating Environment	-40°C to +70°C, sealed for outdoor operation: die cast aluminum package with rubber gasket seals
Mounting	Heavy Duty Pole-Mount Bracket included
Connector	10/100 base T Ethernet RJ-45 with weatherproof sealing gland
Power System	Power Over Ethernet 18 VDC Injectors included: 100-240 VAC 50/60Hz primary source
AW58100HTA Antennas	Omnidirectional, 9 dBi gain in horizontal plane, 16” long
AW58100HTA Size	8.75” Square by 3.25” case plus 16” tall antenna, weight 7 lbs
AW58100HTS, HTP Antenna	Integrated 23 dBi flat panel, 13” square, 10° Beamwidth
AW58100HTS, 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

AW58100HTA	AW58100HTS	AW58100HTP-PAIR
5.8 GHz Outdoor 100 Mbps Wireless Ethernet Access Point	5.8 GHz Outdoor 100 Mbps Wireless Ethernet Subscriber Unit	5.8 GHz Outdoor 100 Mbps Wireless Ethernet Bridge
Includes: (1) AW58100HTA Radio (1) Heavy Duty Pole-Mount Bracket (1) Power Over Ethernet Injector	Includes: (1) AW58100HTS Radio (1) Heavy Duty Pole-Mount Bracket (1) Power Over Ethernet Injector	Includes: (1) AW58100HTP-AP Access Point (1) AW58100HTP-SU Subscriber Unit (2) Heavy Duty Pole-Mount Brackets (2) Power Over Ethernet Injectors

06.17.2014