

## 5.8 GHz Outdoor Wireless 3-Port Ethernet Radios Up To 300 Mbps



AvaLAN has expanded its AW58300 wireless radio product line to include an 802.3af Power Over Ethernet 3-port switch. This allows you to place a wireless Ethernet drop at a location and provide power and data connections for up to three Ethernet devices. 56 VDC power is provided to the three devices via unused wires in their data cables.

This product is fully compatible with the other models in the AW58300 product family and allows 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.

This radio is packaged in a rugged and weatherproof diecast aluminum enclosures with directional antenna configuration. Utilizing state of the art MIMO technology, this product family achieves very high data rate through a combination of multiple spacial streams and higher level OFDM modulation.

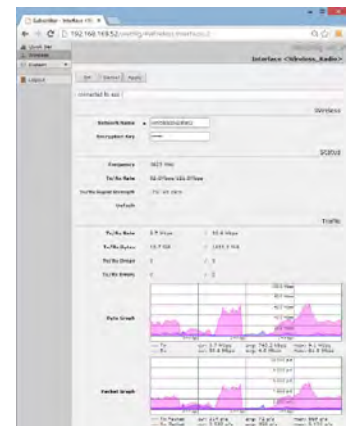
The AW58303HTS directional flat panel antenna version provides two cross polarized 23 dBi gain units and is intended to serve in point-to-point bridge configurations or as a subscriber unit in point-to-multipoint connections.

## Features

- Maximum legal transmit power - 1 Watt
- 3 powered ports of 802.3af PoE+ PoE plus
- Line-of-sight range up to 5 miles for AW58300HTA/ AW58303HTS point-to-multipoint configuration
- Up to 180 Mbps Ethernet data rate to support high resolution cameras
- Data Security provided by 256 AES encryption
- Browser interface for easy configuration and link status monitoring
- Rugged outdoor enclosure meets IP66 Standard

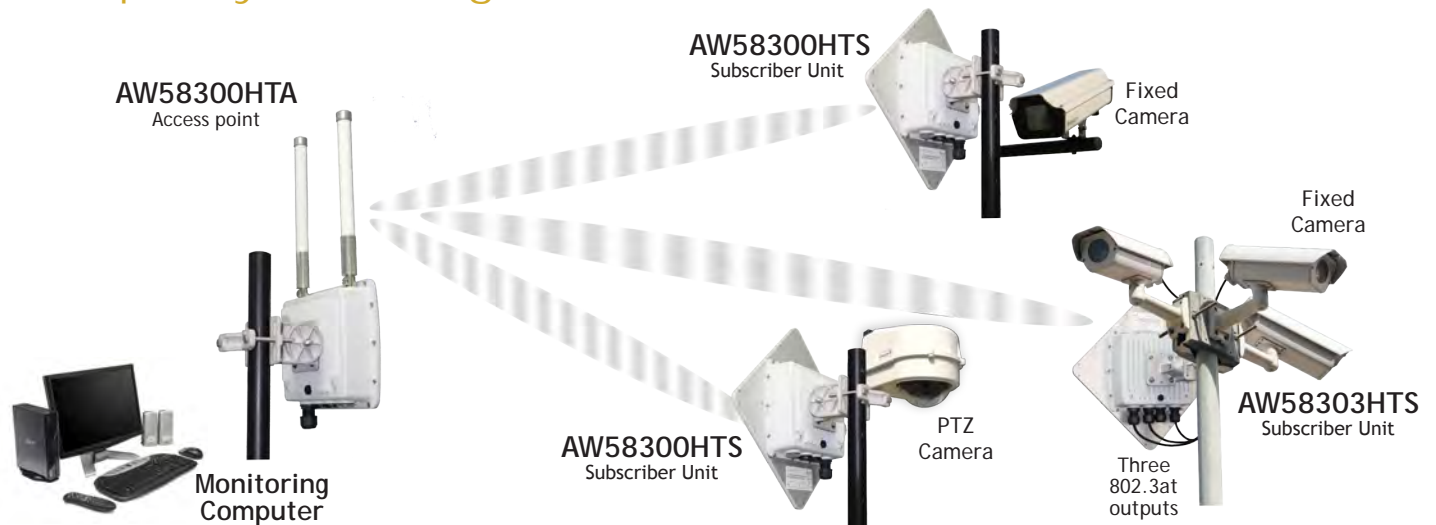


Application Example:  
Wireless bridge to triple  
IP surveillance cameras



Screen Capture:  
Web Browser-based  
Management Tools

## Example System Diagram



## Technical specifications

PARAMETER	SPECIFICATION
RF Transmission Rate	300 Mbps
Ethernet Data Rate	Up to 180 Mbps
Output power	4 Watts EIRP with 23 dBi directional antenna
Power Consumption	120/240 VAC 130 Watts Maximum
Receiver Sensitivity	-115 dBm for HTS configuration
Frequency Range	5.150-5.250 GHz and 5.725 - 5.850 GHz
Channel Bandwidth	40 MHz
RF channels	4 Non-Overlapping with 40 MHz Channel Bandwidth
Modulation	OFDM (BPSK, QPSK, 16-QAM, 64-QAM)
Range	Line-of-sight range up to 5 miles for HTA point-to-multipoint configuration
Browser Management Tools	Data Communication Statistics, Network Settings, Channel Selection
Data Security	256-bit AES-CCM
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	10/100/1000 Ethernet RJ-45 with weatherproof sealing gland
Power Distribution	3 powered ports of 802.3at power over ethernet, 25.5 Watts per port, max aggregate power is 75 Watts
Power Supply	Power Over Ethernet Injector and 56 VDC 100 Watt power supply included
Cabling	60 feet maximum CAT6 cable to each powered external device
Antenna	Integrated 23 dBi flat panel, dual quadrature elements, 13" square, 3 dB Beamwidth 8°
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
Compatibility	AW58303HTS may be linked with AW58300HTA, AW58300HTS

## Ordering Information

<b>AW58303HTS</b>
<b>5.8 GHz Outdoor 300 Mbps Wireless 3-Port Ethernet Subscriber Unit Radio</b>
Includes: (1) AW58303HTS Radio (1) Heavy Duty Pole-Mount Bracket (1) Power Over Ethernet Injector (1) 56VDC Power Supply 100 Watts

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