

## 5.8 GHz Outdoor Wireless 3-Port Ethernet Radio Up To 100 Mbps



AvaLAN has expanded its AW58100 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. 48 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 AW58100 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.

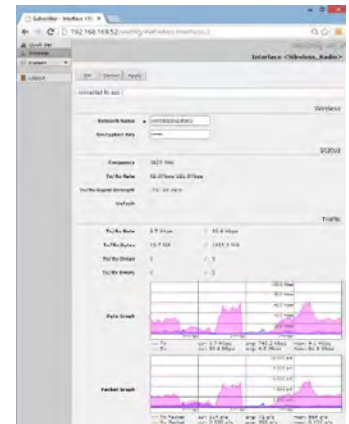
The AW58103HTS directional flat panel antenna version provides two cross polarized 23 dBi gain units and is intended to serve in point-to-point bridge configurations or as a subscriber unit in point-to-multipoint connections.

## Features

- **NEW:** Maximum legal transmit power - 1 Watt
- 3 powered ports of 802.3af power over Ethernet
- Line-of-sight range up to 5 miles for AW58100HTA/ AW58103HTS point-to-multipoint configuration
- Up to 60 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

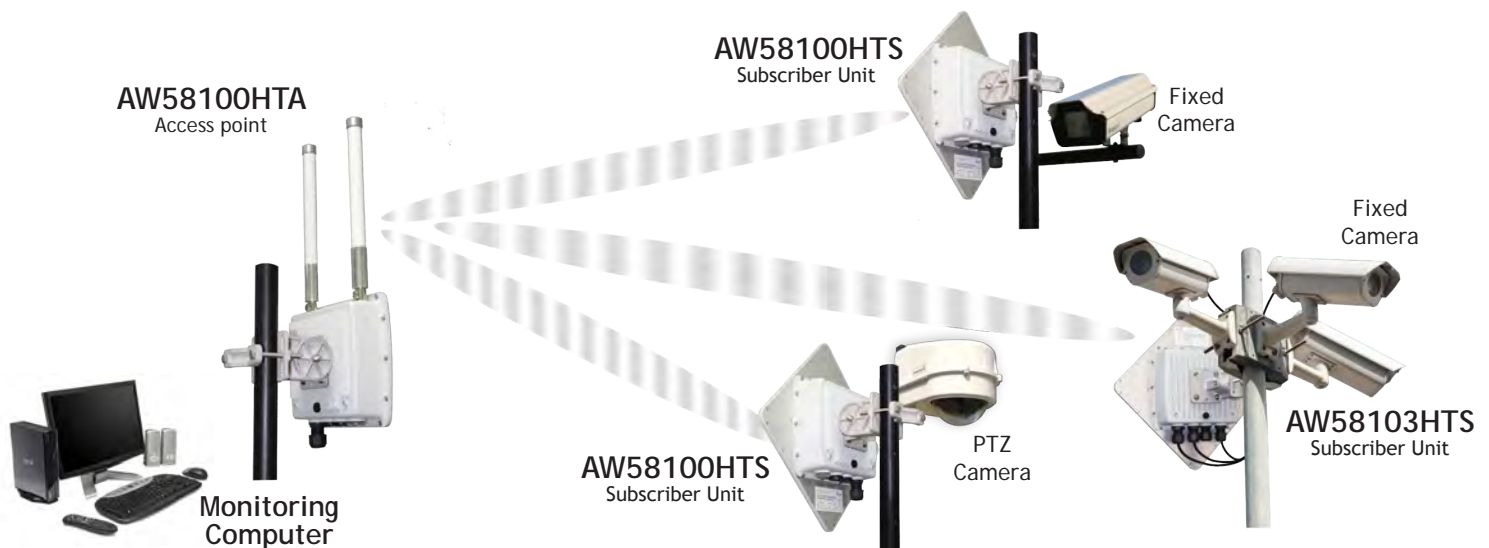


**Application Example:**  
Wireless bridge to triple IP surveillance cameras



**Screen Capture:**  
Web Browser-based  
Management Tools

## Example System Diagram



## Technical specifications

CHARACTERISTIC	SPECIFICATION/DESCRIPTION
RF trasmission rate	100 Mbps
Ethernet Data Rate	Up to 60 Mbps
Output power	4 Watts EIRP with 23 dBi directional antenna
Power Consumption	120/240 VAC 70 Watts Maximum
Receiver Sensitivity	-115 dBm for HTS configuration
Frequency Range	5.150-5.250 GHz and 5.725 - 5.850 GHz
Channel Bandwidth	20 MHz
RF channels	9 Non-Overlapping with 20 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 base T Ethernet RJ-45 with weatherproof sealing gland
Power Distribution	3 powered ports of 802.3af power over ethernet, 15.4 Watts per port, max aggregate power is 25 Watts
Power Supply	Power Over Ethernet Injector and 56 VDC 50 Watt power supply included
Cabling	100' maximum CAT-5 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	AW58103HTS may be linked with AW58100HTA, AW58100HTS

## Ordering Information

<b>AW58103HTS</b>
<b>5.8 GHz Outdoor 100 Mbps Wireless 3-Port Ethernet Subscriber Unit Radio</b>
Includes: (1) AW58103HTS Radio (1) Heavy Duty Pole-Mount Bracket (1) Power Over Ethernet Injector (1) 56 VDC Power Supply 50 Watts

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