

4.9 GHz Outdoor Wireless Ethernet Radios up to 216 Mbps



The AvaLAN 4.9GHz Ethernet radio is optimized for video surveillance which ensures peak performance. This product is designed for public safety applications providing excellent interference mitigation and performance in 4.9GHz.

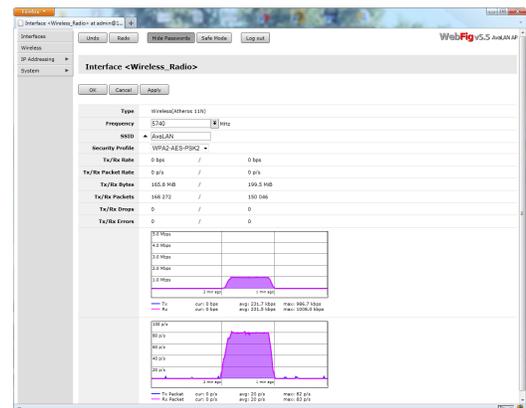
The radios are packaged in rugged and weatherproof diecast aluminum enclosures and are available in both directional and omnidirectional antenna configurations. Utilizing MIMO (multiple input, multiple output) technology, the AW49200 product line achieves very high data rate through a combination of multiple spatial streams and higher level OFDM modulation. The AW49200HTS/ AW49200HTP-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 AW49200HTA omnidirectional unit provides two 9 dBi gain antennas and is designed to serve as the common access point in point-to-multipoint applications.

The AW49200 can be configured for operation in the unlicensed 5 GHz bands as needed.

Features

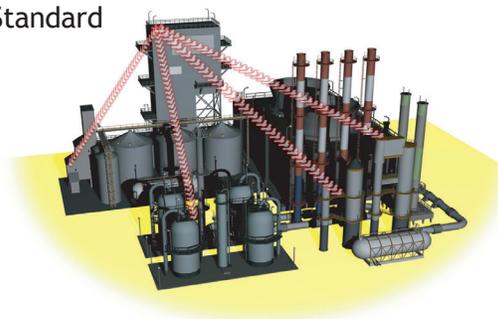
- Maximum legal transmit power - 1 Watt
- LEDs showing signal quality, Ethernet link, network activity and power
- FCC Licensing Assistance
- Built in lightning arrestors (HTA)
- Line-of-sight range up to 30 miles for AW49200HTP-PAIR, 5 miles for HTA/HTS point-to-point configuration
- Up to 216 Mbps 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

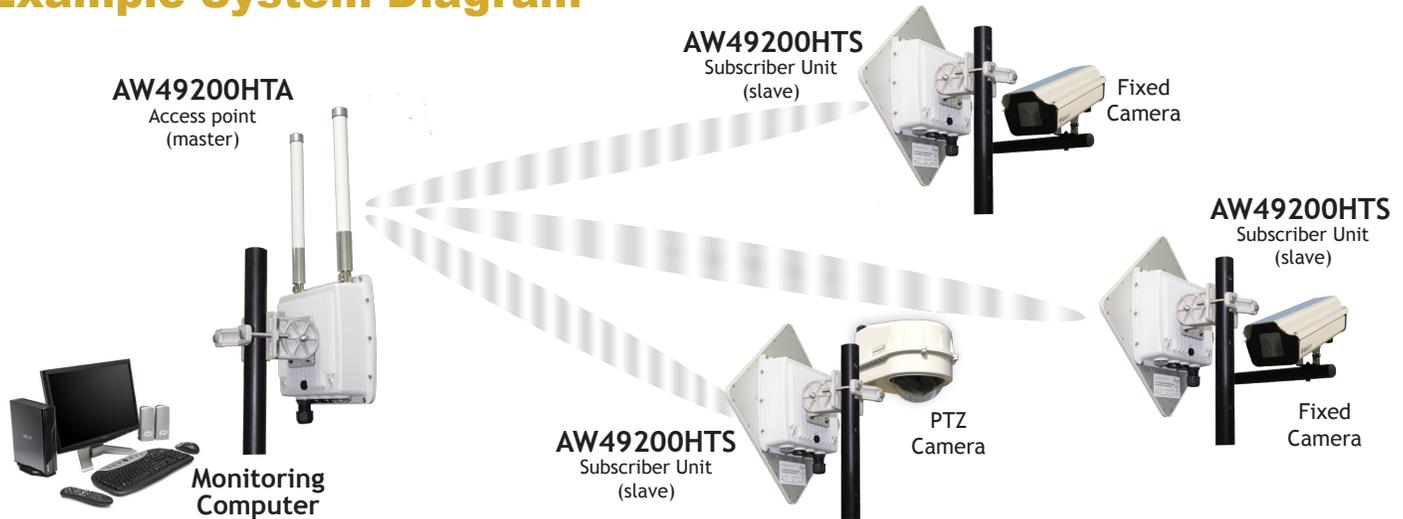


Application Example:

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	216 Mbps
Ethernet data rate	Up to 130 Mbps
Output power AW49200HTA Access Point	4 Watts EIRP with 9 dBi omnidirectional antenna
Output power AW49200HTS Subscriber Unit	4 Watts EIRP with 23 dBi directional antenna
Power Consumption	17 Watts Maximum
Receiver Sensitivity	-115 dBm for HTS and HTP configurations, -101 dBm for the HTA
Frequency Range	4.940 GHz - 4.990 GHz, 5.150 - 5.250 GHz and 5.745 - 5.850 GHz
Channel Bandwidth	20 MHz
RF channels	11 total - 2x Licensed Channels at 4.9 GHz and 9x Unlicensed Channels for 5 GHz bands
Modulation	OFDM (BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM)
Range	Line-of-sight range up to 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
AW49200HTA Antennas	Omnidirectional, 9 dBi gain in horizontal plane, 16" long
AW49200HTA Size	8.75" Square by 3.25" case plus 16" tall antenna, weight 7 lbs
AW49200HTS, HTP Antenna	Integrated 23 dBi flat panel, 13" square, 3 dB Beamwidth 10°
AW49200HTS, 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

AW49200HTA	AW49200HTS	AW49200HTP-PAIR
4.9 GHz Outdoor 130 Mbps Wireless Ethernet Access Point	4.9 GHz Outdoor 130 Mbps Wireless Ethernet Subscriber Unit	4.9 GHz Outdoor 130 Mbps Wireless Ethernet Bridge
Includes: (1) AW49200HTA Radio (1) Heavy Duty Pole-Mount Bracket (1) AW-POE-GIG Power Over Ethernet Injector (1) AW-24VPS Power Supply	Includes: (1) AW49200HTS Radio (1) Heavy Duty Pole-Mount Bracket (1) AW-POE-GIG Power Over Ethernet Injector (1) AW-24VPS Power Supply	Includes: (1) AW49200HTP-AP Access Point Radio (1) AW49200HTP-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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