

Application Example

Surveillance Video, Access Control and Perimeter Sensor Communications at a Secure Government Facility



Technical specifications

CHARACTERISTIC	SPECIFICATION/DESCRIPTION
Security Validation	NIST FIPS 140-2 Level 2 Validated by CMVP Certificate No. 1452
Encryption Method	FIPS 197 Standard: 128, 192 or 256-bit AES
Encryption Block Mode	ECB (CBC coming soon)
RF transmission rate	1.536 Mbps
Ethernet data rate	935 Kbps
Output power	+17 dBm (4 Watts EIRP when used with 19 dBi antenna)
Receiver Sensitivity	-97 dBm at 10 ⁻⁴ BER
Range	30 miles line-of-sight with 19 dBi antenna (AW19-2400 ordered separately)
RF channels/bandwidth	29 non-overlapping channels with 2.0833 MHz spacing and 1.75 MHz bandwidth
Frequency selection	Automatic or manually selectable via web browser interface.
Connector types	RF: RPTNC Female / 10/100 base T Ethernet: RJ-45 / Encryption Config: Mini USB
Error correction technique	Sub-block error detection and retransmission
Adjacent band rejection	SAW receiver filter attenuates cellular and pager interference
Power regulation	Built-in switching regulator
Browser management tools	QoS Statistics, Network Settings, Spectrum Analyzer, Firmware Upgrade
Power consumption	Transmit: 1.7 Watts Receive: 0.8 Watts
Voltage	9 to 48 VDC via unused pins in RJ-45 jack - pins 4,5 positive, 7,8 ground
Temperature range	-40° C to +70° C
Physical Package	Heavy die-cast Aluminum, black powder-coated finish, meets IP66 Standard for water and dust protection. Sealing gland for Ethernet cable entry.
Size	6 by 8 by 20 cm, 0.8 Kg, connectors included Mounting holes on bottom flange, 52 by 190 mm, 4 mm dia.; 0.570 Kg

Ordering Information

AW2400S	AW2400S-PAIR
FIPS 140-2 High Security 2.4 GHz Outdoor Wireless Ethernet Radio	FIPS 140-2 High Security 2.4 GHz Outdoor Wireless Ethernet Bridge
Contents: <ul style="list-style-type: none"> (1) AW2400S Radio (1) AW2-2400 2 dBi Omnidirectional Antenna (1) AW-POE Power Over Ethernet Injector (1) 110 VAC to 12 VDC power adapter (1) Mini USB Cable 	Contents: <ul style="list-style-type: none"> (2) AW2400S Radios (2) AW2-2400 2 dBi Omnidirectional Antennas (2) AW-POE Power Over Ethernet Injectors (2) 110 VAC to 12 VDC power adapters (2) Mini USB Cables

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05.23.2012