

EWS-4900

Extreme Performance – Low Cost Edge Wireless Extension

Strix Systems Access/One® Network EWS-4900 equipment, powered by Strix Edge™ and MIMO techniques is our highest performance Edge wireless network extensions for the longest reach of an outdoor wireless network. The EWS-4900 is enabling the longest reach and instant mesh hand-off compared to any other Wireless devices.

Optimal Throughput for Voice, Video and Data Applications

Strix EWS-4900 is an ideal solution for a subscriber client. It is cost effective to use Strix EWS-4900 to extend the reach of Strix Access/One Network as well as a standalone dual radio outdoor access point. It supports a broad range of voice, video and data applications delivering the highest performance and seamless mobility. The EWS-4900 is an ideal choice for any communications network worldwide.

Low Latency and High Throughput across multiple wireless hops

While wireless-enabled laptops and other wireless devices don't provide adequate power to communicate with outdoor Wireless mesh networks, the EWS-4900 offers a multi-fold increases in power, penetration and performance for the most excellent network experience. By improving signal strength, the mesh network is quickly detected, optimal channel is selected and secure client connection is established. All Strix Access/One are self configuring, enable interference mitigation, provide network resiliency, and offer built-in troubleshooting tools and remote upgradeability for the most demanding environments.

Security & (QoS) Optimization

Strix EWS-4900 provides enhanced Quality of Service and supports the highest levels of security authentication and encryption to secure and protect clients. It also supports Multiple VLANs, PPPoE, and data rate limiting.



Easy Manageability

Strix EWS-4900 supports centralized provisioning and easy remote manageability via CLI, HTTP and SNMP. The device also supports remote firmware updates and includes a number of monitoring, trending and troubleshooting from a centralized NOC. The Strix EWS-4900 allows dynamic channel assignment, automatic power control and data rate selection for greatest RF spectrum efficiency, supports event logging and statistics, Layer-2 and Layer-3 NAT monitors, client monitor, rogue device detection and reports signal strength history.

Technical Specifications

Features & Applications

- ✗ Concurrent dual band Support (5GHz and 2.4GHz)
- ✗ 256 concurrent clients access
- ✗ 300 + 1300 Mbps WLAN RF capacity
- ✗ Smart QoS
- ✗ 16 BSSIDs Per Radio
- ✗ Configurable operating modes for 5GHz Radio (STA/AP)
- ✗ Bridge and Router modes
- ✗ Well suitable for outdoor and high client density deployment

Security & Encryption

- ✗ 802.11i Security: WPA-PSK, WPA2-PSK
- ✗ AES and TKIP encryption
- ✗ WPA2 Enterprise¹
- ✗ Wired Equivalent Privacy (WEP)
- ✗ PPPoE¹
- ✗ MAC Address Access Control Lists
- ✗ Client Isolation
- ✗ Management VLAN¹
- ✗ Firewall

Operating Modes

- ✗ Station, Access Point
- ✗ Layer-2 NAT/WDS
- ✗ Layer-3 NAT, DHCP Server

Monitoring/Troubleshooting

- ✗ Clients, Wireless Neighbor monitor
- ✗ Event Logging and Statistics
- ✗ Layer 2/3 NAT Monitor
- ✗ Signal Strength Indicator
- ✗ Diagnostic Utility¹
- ✗ Antenna Aimer¹

Wireless Specifications

- ✗ Wireless Standards – G/A/N/AC/J/4.9
- ✗ Frequency Bands²:
 - 802.11G/N
 - ✗ 2.4 - 2.462 GHz (Americas, FCC)
 - ✗ 2.4 - 2.472 GHz (Europe, ETSI)
 - ✗ 2.4 - 2.497 GHz (Japan, MKK)
 - 802.11A/N/AC
 - ✗ 5.15 - 5.25 GHz
 - ✗ 5.25 - 5.35 GHz
 - ✗ 5.470 - 5.725 GHz
 - ✗ 5.725 - 5.850 GHz
 - 802.11A/J/4.9²
 - ✗ 4.94 - 4.99 GHz (USA)
 - ✗ 4.92 - 5.08 GHz (Japan)
- ✗ Receiver Sensitivity Rates
 - ✗ 802.11a/g/n HT20: -74 dBm @MCS7
 - ✗ 802.11a/g/n HT40: -72 dBm @MCS7
 - ✗ 802.11a/g: -78 dBm @ 54 Mbps
 - ✗ 802.11a/j/n/ac HT20: -70 dBm @MCS8
 - ✗ 802.11a/n/ac HT40: -64 dBm @MCS9
 - ✗ 802.11a/n/ac HT80: -61 dBm @MCS9
 - ✗ 802.11a/j: -78 dBm @54Mbps
- ✗ Transmit Power
 - ✗ Up to 26 dBm² (802.11/G/N)
 - ✗ Up to 25 dBm² (802.11A/J/4.9/N/AC)
- ✗ Modulations
 - ✗ 802.11a/g: 16-QAM, QPSK, BPSK
 - ✗ 802.11b: CCK, DQPSK, DBPSK
 - ✗ 802.11n: 16-QAM, 64-QAM, QPSK, BPSK
 - ✗ 802.11ac: 16-QAM, 64-QAM, 256-QAM, QPSK, BPSK
- ✗ Supported Channel Widths^{1, 2}
 - ✗ 5, 10, 20, 40, and 80 MHz

Antenna Specifications

- ✗ 2.4 GHz Internal Antenna
 - ✗ MIMO: 2X2
 - ✗ Gain:12dBi
 - ✗ H-BW:60°, V-BW: 38°
- ✗ 5 GHz Internal Antenna
 - ✗ MIMO: 3X3
 - ✗ Gain:14dBi
 - ✗ H-BW:38°, V-BW: 20°

Remote and Local Management

- ✗ HTTP, HTTPS, CLI, Telnet, SSH¹, SNMP, FTP
- ✗ Remote Management and Provisioning¹
- ✗ Bandwidth Provisioning¹

Electrical

- ✗ Power Over Ethernet, 802.3af or Passive POE 12-50VDC
- ✗ Power : 18W (Typical Power : 12W)

Physical

- ✗ Dimension: 10.63”H x 10.63”W x 2.95”D
- ✗ Weight: 1.20Kg
- ✗ Weather Rating: IP67 weather tight
- ✗ Pole Mount
- ✗ Operating Temperature: -20°C to 55°C
- ✗ Storage Temperature: -40°C to 80°C
- ✗ Humidity: 95% Non-condensing

Warranty

- ✗ 13 Months Hardware, Software and Technical Support

Interfaces and Ports

- ✗ 1 x 10/100/1000Mbps Ethernet port

¹Available Future Software Upgrade

²Varies by Country and/or Model