

## EWS-4500

### Extreme Performance – Low Cost Edge Wireless Extension

Strix Systems Access/One® Network EWS-4500 equipment, powered by Strix Edge™ and MIMO techniques is our high performance Edge wireless network extensions for the longest reach of an outdoor wireless network. The EWS-4500 is a rugged device with flexible mounting options, enabling the longest reach and instant mesh hand-off for large number of client devices compared to other wireless devices.

### Optimal Throughput for Voice, Video and Data Applications

Strix EWS-4500 is an ideal solution for a subscriber client. It is configurable to extend the reach of Strix Access/One Network to 100+ clients or as standalone dual radio access point. It supports a broad range of voice, video and data applications delivering the highest performance and seamless mobility. The EWS-4500 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 mesh networks, the EWS-4500 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 channels selected and secure client connections are established. All Strix Access/One products 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-4500 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, data rate limiting.



### Easy Manageability

Strix EWS-4500 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-4500 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 (5.x & 2.4 GHz)
- ✗ 250 plus concurrent clients access
- ✗ 867 + 300 Mbps WLAN RF capacity
- ✗ Smart QoS, VLAN
- ✗ Multiple SSID support
- ✗ Configurable operating modes for 5GHz Radio (STA/AP)
- ✗ Bridge and Router modes
- ✗ Well suitable for high client density deployment
- ✗ Fast and secure client roaming
- ✗ IPv6 support
- ✗ Automatic/Manual channel selection

### Security & Encryption

- ✗ 802.11i Security: WPA-PSK, WPA2-PSK
- ✗ AES and TKIP encryption
- ✗ WPA2 Enterprise<sup>1</sup>
- ✗ Wired Equivalent Privacy (WEP)
- ✗ PPPoE<sup>1</sup>
- ✗ MAC Address Access Control Lists
- ✗ Client Isolation
- ✗ Management VLAN<sup>1</sup>
- ✗ 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
- ✗ Antenna Aimer and other diagnostic utilities<sup>1</sup>

### Wireless Specifications

- ✗ Wireless Standards – G/A/N/AC
- ✗ Frequency Bands<sup>2</sup>:
  - 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
- ✗ Receiver Sensitivity Rates
  - ✗ 802.11a/g/n HT20: -71dBm @MCS7
  - ✗ 802.11a/g/n HT40: -71dBm @MCS7
  - ✗ 802.11a/g: -77dBm @ 54 Mbps
  - ✗ 802.11a/n/ac HT20: -69 dBm @MCS8
  - ✗ 802.11a/n/ac HT40: -66 dBm @MCS9
  - ✗ 802.11a/n/ac HT80: -66 dBm @MCS9
  - ✗ 802.11a: -78dBm @54Mbps
- ✗ Transmit Power
  - ✗ Up to 23 dBm<sup>2</sup> (802.11G/N) per chain
  - ✗ Up to 23 dBm<sup>2</sup> (802.11A/N/AC) per chain
  - ✗ Automatic Tx Power Control<sup>1</sup>
- ✗ 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<sup>1,2</sup>
  - ✗ 5, 10, 20, 40, and 80 MHz

### Firmware

- ✗ Strix SWACE

### Antenna Specifications

- ✗ 2.4 GHz Internal Antenna
  - ✗ MIMO: 2X2, 5 dBi
- ✗ 5 GHz Internal Antenna
  - ✗ MIMO: 2X2, 12 dBi

### Remote and Local Management

- ✗ HTTP, HTTPS, CLI, Telnet, SSH<sup>1</sup>, SNMP, FTP
- ✗ Remote Management and Provisioning<sup>1</sup>
- ✗ Bandwidth Provisioning<sup>2</sup>

### Electrical

- ✗ Passive PoE 48V
- ✗ Max power : 15W

### Physical

- ✗ Dimension: 11"H x 9.6"W x 4.5"D
- ✗ Weight: 1.10Kg
- ✗ Weather Rating: IP66 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

- ✗ 2 x 10/100/1000Mbps Ethernet port

<sup>1</sup>Available Future Software Upgrade

<sup>2</sup>Varies by Country and/or Model