

MWS - 100 HSX

Features

Wireless

- High-performance, dual-radio mesh architecture.
- Low latency and high throughput across multiple wireless hops.
- Full duplex mesh.

System

- All nodes auto-discover and self-configure.
- Self-tuning and self-healing mesh for network optimization.
- User definable QoS with voice, video and data prioritization.
- Up to 16 BSSIDs per radio.
- Multiple SSIDs (per network and per node) and VLAN tagging, with configurable security parameters on a per-SSID basis.
- Session persistence for roaming, path optimization or failover.
- Manager/One® Web interface provides a full suite of intuitive management tools at the network, node, and radio levels.
- Additional remote management options include SNMP, CLI over Telnet or SSH, HTTP/HTTPS, DHCP, and BOOTP.
- Seamless interoperability with the Strix Access/One® Indoor Wireless System (IWS) and Edge Wireless System (EWS).

Security

- Supports all industry standard security protocols.
- RADIUS, WPA, EAP-MD5, EAP-TLS, PEAP-TTLS authentication.
- 802.11i with AES, WEP and TKIP encryption.
- MAC address Access Control Lists on a per SSID basis.
- Full VPN support.
- Layer 2 Traffic Privacy

HIGH PERFORMANCE INTEGRATED WIRELESS SYSTEM

Strix Systems introduces the Integrated wireless MWS-100 HSX to its award winning Access/One family of wireless indoor, outdoor, mobile and video surveillance products. Enclosed in a weatherized, air and watertight outdoor enclosure, Utilizing Strix DMA™, the Access/One MWS-100 HSX dual radio mesh system uses advanced algorithms to deliver high performance intelligent radio algorithms that dynamically adjust to the environment for superior multi-frequency, multi-channel, multi radio technology that delivers multi-megabit and low latency performance.

Designed to address key markets, Strix MWS-100 HSX is easily deployable, automatically and instantly self-configuring, and provides superior performance, security and flexibility. City and municipal public safety deployments as well as mobile/RV parks, marinas, outdoor malls, fixed and temporary event venues, outdoor enterprise, industrial and strategic locations, for applications ranging from general access/ hot spots, mobile data, video surveillance, VoIP and backhaul transport for SCADA and AMR. Efficiently increasing the reach of the networks in a robust and a cost effective way.

MWS-100 HSX is the most secure mesh networking system available, with the tools to authenticate users, encrypt wireless traffic, and monitor network activity all provided as standard features. Integrates well with the OWS to expand networks efficiently and in a cost effective manner.

Strix MWS-100 HSX offers unique set of finely tuned features including robust high performance 802.11a, 802.11g & high power licensed 4.9 GHz (DSRC-C) for a combination of high density user access and high-speed backhaul to Strix Access/One Outdoor Wireless Mesh Networks. Strix MWS-100 HSX also

supports industry-standard security algorithms for secured backhaul and client connectivity, multiple SSIDS and VLANs as well as end-to-end Quality of Service. Extended operating temperature ranges and flexible mounting options make Strix MWS-100 HSX suitable for all types of deployment scenarios. The MWS-100 HSX scales efficiently and economically while maximizing coverage areas affordably. It greatly reduces deployment, operating costs bringing down the Total Cost of Ownership.



Technical

Wireless

- Wireless Standards: IEEE 802.11a/g
- Frequency Bands:
 - 802.11a
 - 5.15 - 5.25 GHz
 - 5.25 - 5.35 GHz
 - 5.470 - 5.725 GHz (capable)
 - 5.725 - 5.850 GHz
 - 802.11g
 - 2.4 - 2.462 GHz (Americas, FCC)
 - 2.4 - 2.472 GHz (Europe, ETSI)
 - 2.4 - 2.497 GHz (Japan, MKK)
 - U.S. Public Safety
 - 4.940 - 4.990 GHz (FCC DSRC-C)
- Data Rates (Mbps):
 - 6, 9, 12, 18, 24, 36, 48, 54 (802.11a/g/4.9)
- Wireless Medium:
 - 802.11a/g/4.9 – OFDM
- Modulation:
 - 802.11a/4.9 – BPSK, QPSK, 16 QAM, 64 QAM
 - 802.11g – DBPSK, DQPSK, CCK
- Operating Channels:
 - 802.11a
 - 13 (Americas, FCC) 8 indoor, 5 outdoor
 - 13+ (Europe, ETSI), 13 (Japan, MKK)
 - 802.11g
 - 11 (Americas, FCC)
 - 13 (Europe, ETSI), 13 (Japan, MKK)
 - U.S. Public Safety
 - 2 (4.955 GHz, 4.975 GHz)
- Transmit Power (802.11a/g/4.9): 26 dBm
- Transmit and Receive Diversity
- Receiver Sensitivity:

802.11g:	802.11a/4.9:
-98 dBm @ 1 Mbps	-93 dBm @ 6 Mbps
-94 dBm @ 5.5 Mbps	-90 dBm @ 12 Mbps
-91 dBm @ 11 Mbps	-84 dBm @ 24 Mbps
-93 dBm @ 6 Mbps	-81 dBm @ 36 Mbps
-91 dBm @ 12 Mbps	-76 dBm @ 48 Mbps
-85 dBm @ 24 Mbps	-74 dBm @ 54 Mbps
-82 dBm @ 36 Mbps	
-77 dBm @ 48 Mbps	
-75 dBm @ 54 Mbps	
- LO (crystal) Frequency Stability:
 - +/-20PPM

Electrical

- Power Input: Auto-sensing 120/240 VAC, 50/60 Hz, single and split phase, with ANSI/IEEE C62.41 category C3 integrated surge protection
- Power Consumption: 18W typical, 20W maximum
- DC Input: 12 - 48V,
- High Powered PoE

Environmental

- Operating Temperature: -40°C to +55°C
- Storage Temperature: -50°C to +85°C
- Humidity: 10% to 90% non-condensing
- Weather Rating: IP67 weather tight
- Wind Survivability: >165 mph
- Wind Loading (165 mph): <1024 newtons

Physical

- 7.25" H x 8.25"W x 2.25"D (without accessories)
- Weight: 2.4lbs (1.08 Kg)
- NEMA 4X outdoor enclosure rated IP67
- Wall mount and pole mount brackets included

Security

- Authentication: 802.1x support, including RADIUS client, EAP-MD5, EAP-TLS, PEAP-TTLS, WPA/WPA2 and WPA-PSK/WPA2-PSK
- Encryption: IEEE 802.11i with AES, TKIP, WEP and AES encrypted backhaul.
- General: Layer 2 Traffic Privacy

Remote Management

- Web, CLI and SNMP interfaces
- Supports DHCP, Telnet, SSH, HTTP, HTTPS, and FTP
- SNMP: MIB II, 802.11 MIB, and Strix private MIBs

Approvals

- FCC CFR47 Part 15, Class A; EN 301 489-1/-17 EN 301 328; EN 301 893
- Industry Canada RSS210
- EN60950 cTUVus Listed I.T.E
- UL 579/IEC 60529 IP67, rated for outdoor use
- UL 1449 2nd edition / IEC 60664-1
- VCCI Class A

Optional Accessories

- Adjustable Mounting Bracket
- Street light NEMA photo-electric power taps

Warranty

- One year Hardware and Software included
- Optional extended Warranties

Ordering Information

Please Contact your
Distributor

