

OVS 2400 SERIES

Features

Wireless

- ▶ High-performance, multi-node and multi-radio mesh architecture.
- ▶ Low latency and high throughput across multiple wireless hops.
- ▶ Up to four 802.11a, b and g radios per node (upgradeable), with power output up to 1W per radio.
- ▶ 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 Network® Indoor Wireless System (IWS).

Security

- ▶ Supports all industry standard security protocols.
- ▶ RADIUS, WPA, EAP-MD5, EAP-TLS, PEAP-TTLS authentication.
- ▶ 802.11i (WPA2) with AES, WEP encryption.
- ▶ MAC address Access Control Lists on a per SSID basis.
- ▶ Full VPN support.

www.strixsystems.com

Delivers higher throughput and lower latency across multiple hops

The Access/One Network® OWS is a high performance structured wireless mesh networking system that delivers on the promise of Networks Without Wires®. With its multi-radio, multi-RF and multi-channel capabilities, the OWS utilizes advanced algorithms to deliver high throughput over multiple hops from the core to the edge of the network. The OWS intelligently self-tunes, self-configures and self-heals to optimize the overall performance and availability.

OVS architecture makes 802.11 a full duplex technology, moving traffic more efficiently through the network and utilizing different RF frequencies and channels for network connectivity and client access. In addition, channels are selected dynamically, making the network more resilient to interference than standard mesh networks. Working closely together, these features deliver higher throughput and lower latency across multiple hops, supporting real time voice, video, and data applications.

OVS is the most secure structured mesh networking system available, with the tools to authenticate users, encrypt wireless traffic, and monitor network activity all provided as standard features. Secure private networks can operate in tandem with open public access networks—with data integrity guaranteed.



The OVS scales efficiently, minimizing the number of wired termination points required in the network, which greatly reduces deployment and operating costs. Extended operating temperature ranges and flexible mounting options make the OWS suitable for all types of deployment scenarios.

All OWS nodes can be centrally managed using the Manager/One® secure Web interface, or the carrier grade SNMP based management tools.

Enhanced features like Virtual/Strix and Priority/One support deployments of mixed use networks where varying security schemes are implemented based on user type (for example, public safety versus public access), and different levels of priority can be assigned to the various network traffic.

Access/One Network OWS is an ideal solution for WISPs, public safety, and city governments.

Strix Systems, Inc.
26610 Agoura Road,
Calabasas, CA 91302
USA

1-877-STRIXSYS (787-4979) Toll Free

Outdoor Wireless System



Technical Specifications

Wireless

- Wireless Standards: IEEE 802.11a/b/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
 - 802.11b/g
 - 2.4 - 2.462 GHz (Americas, FCC)
 - 2.4 - 2.472 GHz (Europe, ETSI)
 - 2.4 - 2.497 GHz (Japan, MKK)
- Data Rates (Mbps):
 - 6, 9, 12, 18, 24, 36, 48, 54 (802.11a/b/g)
 - 12, 18, 24, 36, 48, 72, 96, 108 (802.11a Turbo mode)
- Wireless Medium:
 - 802.11a – OFDM, 802.11b/g – DSSS
- Modulation:
 - 802.11a – BPSK, QPSK, 16 QAM, 64 QAM
 - 802.11b/g – DBPSK, DQPSK, CCK
- Operating Channels:
 - 802.11a
 - 13 (Americas, FCC) 8 indoor, 5 outdoor
 - 13+ (Europe, ETSI), 13 (Japan, MKK)
 - 802.11b/g
 - 11 (Americas, FCC)
 - 13 (Europe, ETSI), 13 (Japan, MKK)
- Transmit Power:
 - Configuration dependent—contact Strix Systems
- Receiver Diversity
- Receiver Sensitivity:
 - Configuration dependent—contact Strix Systems
- LO (crystal) Frequency Stability:
 - +/-20PPM within normal op. range of 0° to 55°C

Electrical

- Power Input: Auto-sensing 120/240 VAC, 50/60 Hz, single and split phase, with ANSI/IEEE C62.41 category C3 integrated branch circuit protection
- AC Power Consumption: 25W typical, 42W maximum
- DC Input: 12/24V, 6A maximum
- 802.3af PoE (Power-over-Ethernet)

Protection Circuits

- Antenna Lightning Protection: $\leq 9\mu\text{J}$ for 6kV/3kA @ 8/20 μs waveform
- Electrical Protection: ANSI/IEEE C62.41, UL 1449 2nd edition; 10kA @ 8/20 μs waveform, 36kA per phase; L-L, L-N, L-PE
- Data Protection: EN61000-4-2 Level 4 ESD Immunity
- EN61000-4-5 Level 4 AC Surge Immunity
- EN61000-4-4 Level 4 Elect. Fast Transient Burst Immun.
- EN61000-4-3 EMV Field Immunity

Environmental

- Operating Temperature: -30°C to +55°C
- Storage Temperature: -45°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
- Salt/Fog/Rust Resistance: Mil-STD-810F 509.4
- Shock & Vibration: ESTI 300-192-4 spec T41.E
- Class 4M3 and Mil-STD-810
- Transportation: ISTA 2A and Mil-STD-810

Physical

- 12" high x 10" wide x 6" deep (without accessories)
- Weight: 14.5lbs (6.58 Kg)
- NEMA 4X rated for outdoor enclosures
- Wall mount and pole mount brackets included

Security

- Authentication: 802.1x support, including RADIUS client, EAP-MD5, EAP-TLS, and PEAP-TTLS, WPA
- Encryption: IEEE 802.11i (WPA2) with AES, and WEP

Remote Management

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

Approvals

- FCC CFR47 Part 15, Class A
- 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
- CAN/CSA-C22.2 60950-00
- VCCI Class A

Optional Accessories

- In-line antenna lightning protection
- Quick connect/disconnect mounting bracket with theft deterrent
- Street light NEMA photo-electric power taps

Warranty

- One year parts and labor

Ordering Information

OWS 2410

Part Number: 680-0107-01
110/220 VAC auto-sensing, preconfigured with 1-802.11a and 1-802.11g radio, 2 type N antenna connectors, 1 multi-use power connector, and 1 Ethernet connector.

OWS 2410-HTR

Part Number: 680-0107-02
110/220 VAC auto-sensing, preconfigured with 1-802.11a and 1-802.11g radios, heater and temperature sensor, 2 type N antenna connectors, 1 multi-use power connector, and 1 Ethernet connector.

OWS 2410-DC

Part Number: 680-0107-03
12 VDC auto-sensing, preconfigured with 1-802.11a and 1-802.11g radios, 2 type N antenna connectors, 1 multi-use power connector, and 1 Ethernet connector.

OWS 2420

Part Number: 680-0107-04
110/220 VAC auto-sensing, preconfigured with 2-802.11a and 2-802.11g radios, 4 type N antenna connectors, 1 multi-use power connector, and 1 Ethernet connector.

OWS 2420-HTR

Part Number: 680-0107-05
110/220 VAC auto-sensing, preconfigured with 2-802.11a and 2-802.11g radios, heater and temperature sensor, 4 type N antenna connectors, 1 multi-use power connector, and 1 Ethernet connector.

OWS 2420-DC

Part Number: 680-0107-06
12 VDC auto-sensing, preconfigured with 2-802.11a and 2-802.11g radios, 4 type N antenna connectors, 1 multi-use power connector, and 1 Ethernet connector.