

IWS

DATA SHEET

Why Choose the Access/One Network IWS?

Mesh Topology

- ▶ Mesh topology is the next evolutionary step in networking, moving beyond Wireless LAN switches and access points.
- ▶ Self-configuring, self-healing, self-tuning for automatic operation.
- ▶ Drops seamlessly into Cisco and Microsoft environments.

Differentiates Itself

- ▶ Manager/One® Web interface provides a full suite of intuitive management tools at the network, node, and radio levels.
- ▶ Supports all industry standard security protocols.
- ▶ Virtual/Strix and Priority/One support deployments of mixed use networks where varying security schemes are implemented based on user type.

Grows Proportionately

- ▶ Not dependent on a central control point, and scales much more effectively than typical solutions.
- ▶ Provides a reliable redundant system, extendable over thousands of square feet.
- ▶ Modular design makes Access/One Network IWS highly scalable.

Simplifies Installation

- ▶ Installs in hours, not weeks.
- ▶ Achieves reliable communications without complicated planning and site mapping.
- ▶ Weak or dead zones are easily corrected by simply moving a network node or dropping another node into place.

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NETWORK CONNECT

Provides wired or wireless Node connectivity to the network

Network Connect is the system infrastructure used by Access/One® Network IWS (Indoor Wireless System) for wired or wireless connectivity to the corporate LAN. Each node within the Access/One Network IWS can use a wired 10/100 Ethernet or wireless 802.11a/802.11g module for node-to-node or enterprise network connections—achieving the ultimate in network flexibility and control.

The wireless Network Connect option provides several distinct advantages over a wireless network that uses wired connections. For example:

- ▶ **SECURE NETWORKING**—strong AES encryption for the LAN connection.
- ▶ **SELF-TUNING AND SELF-HEALING**—auto discovery of optimal paths for peak performance, and auto re-routing to eliminate points of failure.
- ▶ **HIGHLY SCALABLE**—system grows with no need for infrastructure changes.
- ▶ **SIMPLE INSTALLATION**—system self configures with no additional wiring.
- ▶ **COST EFFECTIVE**—high costs of pulling Ethernet cables are avoided.

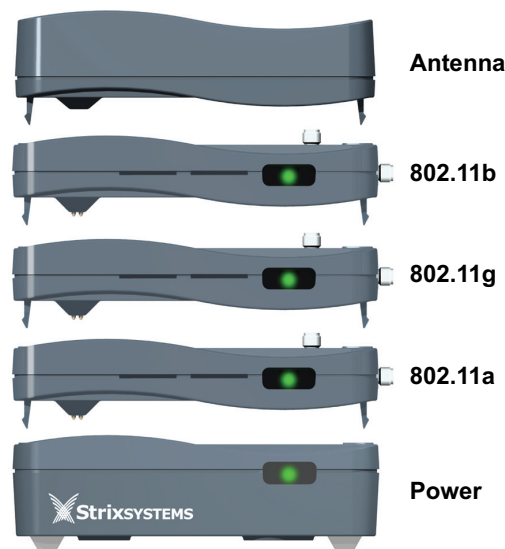
Unlike traditional wired 10/100 Ethernet LAN connections used by access points and WLAN switches, the wireless Network Connect option provides an advanced level of security between the node and the corporate LAN.

In addition, Access/One Network IWS supports a Network Connect option via 10/100 Ethernet, where the node connects to the network via a traditional wired

Ethernet link. In this case, the wired node becomes part of a cohesive and scalable wireless system with all of the benefits of Access/One Network IWS.

Power over Ethernet (PoE) is standard, with support for 802.3af and Cisco's proprietary versions.

With Network Connect, you can employ a traditional wired 10/100 Ethernet connection or choose a revolutionary method of wireless connectivity that brings unprecedented system features and capabilities.



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Technical Specifications

Network Connect Unit

- ▶ Network Architecture Type:
Infrastructure, mesh, auto-discovery, self-healing
- ▶ Network Connect:
Auto sensing 802.3 10/100 Ethernet via the Base Module or IEEE 802.11a / 802.11g
- ▶ Remote Configuration Support:
BOOTP, DHCP, Telnet, HTTP, FTP, TFTP and SNMP
- ▶ SNMP Compliance:
MIB I, MIB II, 802.11 MIB, Strix MIB
- ▶ Integrated Power over Ethernet Support:
802.3af and Cisco proprietary (Base Module); 13 Watts maximum
- ▶ Input Power Requirements:
Base Module - 90 to 265 VAC 47 to 63 KHz (power supply); 18 Watts maximum
- ▶ Dimensions:
 - 802.11 Wireless Module: 5.0 x 3.65 x 0.60 in
 - Antenna Module: 5.0 x 3.65 x 1.25 in.
 - Base Module: 5.0 x 3.65 x 1.30 in.
- ▶ Environmental:
32° to 104° F (0° to 40° C) 10 to 90% humidity (non-condensing)
- ▶ Status LEDs:
Single multi-state LED: green, orange, red

Network Standard: IEEE 802.11a

- ▶ Data Rates Supported:
 - 6, 9, 12, 18, 24, 36, 48, 54 Mbps
 - Turbo Mode: 12, 18, 24, 36, 48, 72, 96, 108 Mbps
- ▶ Frequency Band:
5.15 - 5.25 GHz; 5.25 - 5.35 GHz; 5.470 - 5.725 GHz; 5.725 - 5.850 GHz
- ▶ Wireless Medium:
Orthogonal Frequency Division Multiplexing (OFDM)
- ▶ Modulation: BPSK, QPSK, 16 QAM, 64 QAM
- ▶ Operating Channels: up to 12
- ▶ Transmit Power: up to 50 mW
- ▶ Indoor Range:
60 ft (18 m) @ 54 Mbps 170 ft (50 m) @ 6 Mbps

Network Standard: IEEE 802.11g

- ▶ Data Rates Supported:
 - 6, 9, 12, 18, 24, 36, 48, 54 Mbps
 - Super G: 12, 18, 24, 36, 48, 72, 96, 108 Mbps
- ▶ Frequency Band:
 - 2.412 to 2.462 GHz (FCC)
 - 2.412 to 2.472 GHz (ETSI)
 - 2.4 to 2.497 GHz (Japan)

- ▶ Wireless Medium:
Orthogonal Frequency Division Multiplexing (OFDM), Direct Sequence Spread Spectrum (DSSS)
- ▶ Modulation: DBPSK, DQPSK, CCK
- ▶ Operating Channels:
Americas (FCC): 11; Europe (ETSI): 13; Japan (MCK): 13
- ▶ Transmit Power: up to 50 mW
- ▶ Indoor Range:
60 ft (18 m) @ 54 Mbps 170 ft (50 m) @ 6 Mbps
- ▶ Active Users per Wireless Module: 256
- ▶ Transmit Power Note: Maximum power settings will vary according to individual country regulations.
- ▶ Integrated Antenna Type:
Cross Polarized, Omni-Directional Diversity Antenna
- ▶ Integrated Antenna Gain:
802.11a/b/g: 3 dBi;
- ▶ MTBF:
Base Module: 50,000 hours Wireless Module: 75,000 hours
- ▶ Available Mounting Configurations:
Ceiling-Mount, Wall-Mount, Desktop, Atop Standard Office Cubicles, and Above Ceiling Tiles (w/external antennas)

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

Compliance (802.11a/b/g)

- ▶ Emissions:
EN 55022:1998 + A1:2000, FCC Part 15, ICES-003, VCCI, AS/NZS, CNS 13438, CE Mark
- ▶ Immunity:
EN 55024:1998 + A1:2001, CE Mark
- ▶ Product Safety:
IEC 60950:1999 / EN 60950:2000, UL 60950, CSA 22.2 No. 60950-00, CE Mark, UL2043
- ▶ Health (Radiation Hazard):
RSS-102, FCC Bulletin OET-65C
- ▶ Radio:
FCC Part 15C.247, FCC Part 15E.401-407, EN 300328-1:2001, ETS 300 328-2:2001, EN301489-1:2000, and EN 301489-17:2002

Module Configurations

Wired Ethernet Network Connect

Base Module with 1 or 4 Ethernet (PoE option) BME1, BME4

Wireless 802.11a or 802.11g Network Connect

802.11a Wireless Module WM11Ae; 802.11g Wireless Module WM11Ge; Wireless Base Module BME0

Module Placement Rules

Wireless Modules are placed directly above the Base Module. If a Network Server Module is also being used, Wireless Modules are placed above the Network Server Module.

Antenna Module

802.11a/b/g Antenna Module AM11AABG (dual functionality)

Access/One® Network IWS increases mobile worker productivity by providing a continuous and secure connection to company networks in Ethernet-free environments.

Networks Without Wires®