

# 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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## CLIENT CONNECT

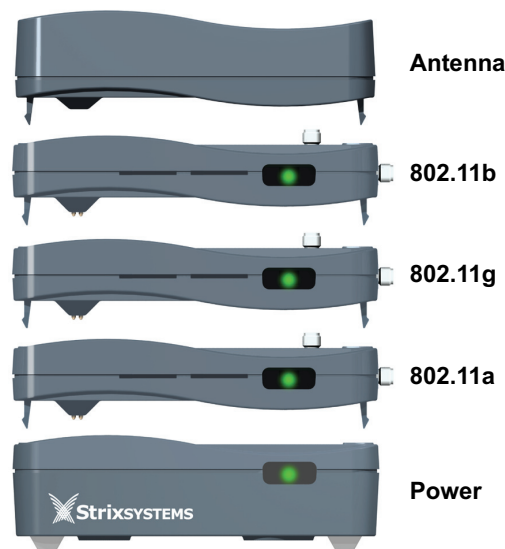
### Supports access to client devices using any wireless technology

Comprised of a series of Access/One® Network IWS (Indoor Wireless System) modules that support 802.11a, 802.11b, or 802.11g wireless technologies, the Client Connect choice enables you to customize each network node to support the technologies you need in the locations you need them. Any mix of these technologies are supported within a single network node or across the entire network.

Access/One Network IWS was designed to be modular and flexible, with each network node capable of supporting up to three modules of any type and mix. This flexibility provides the configuration options needed to meet the most demanding user connectivity requirements. Additionally, support of future Client Connect wireless technologies, such as 802.16, Ultrawideband (802.15.3a), or 802.20, is as simple as adding the appropriate module to the network nodes wherever needed. The 802.11a and 802.11g Client Connect modules can be configured to achieve speeds up to 108 Mbps, significantly improving the performance of the wireless network.

Whether you carry a notebook, PDA, barcode reader, or use other WLAN enabled devices—such as printers or desktop computers—stay continually connected to the network as you move throughout your building. No special software or configurations are required.

Client Connect modules support comprehensive security, including 802.1x RADIUS clients for authentication and encryption schemes, such as WEP, WPA and AES. The Client Connect category of Access/One Network IWS provides secure network access for any type and mix of wireless user within your network infrastructure, enabling support for diverse wireless user requirements at all levels of the organization (corporate, divisional, and departmental).



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## Technical Specifications

### Client 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 802.11b

- ▶ Data Rates Supported: 1, 2, 5.5, 11 Mbps
- ▶ Frequency Band:
  - 2.4 to 2.462 GHz (FCC)
  - 2.4 to 2.472 GHz (ETSI)
  - 2.4 to 2.497 GHz (Japan)
- ▶ Wireless Medium:  
Direct Sequence Spread Spectrum (DSSS)
- ▶ Modulation: DBPSK, DQPSK, CCK

- ▶ Operating Channels:  
Americas (FCC): 11; Europe (ETSI): 13; Japan (MCK): 14
- ▶ Transmit Power: up to 50 mW
- ▶ Indoor Range:  
150 ft (45 m) @ 11 Mbps 400 ft (120 m) @ 1 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

### 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

### 802.11b Client Connect

802.11b Wireless Module WM11B  
802.11a and b/g Antenna Module AM11AABG (dual technology)

### 802.11g Client Connect

802.11g Wireless Module WM11G  
802.11a and b/g Antenna Module AM11AABG (dual technology)

### 802.11a Client Connect

802.11a Wireless Module WM11A  
802.11a and b/g Antenna Module AM11AABG (dual technology)

*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®**