

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)

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