

IRONPOINT 200



IRONPOINT™ WIFI ACCESS POINT

ADOPTING ENTERPRISE WIRELESS LANs

The popularity of wireless networking is growing and users have recognized the many benefits of using mobile technology. Wireless networks can provide new connectivity to places that were once hostile to traditional wired networks. Access to the Internet and corporate data files while roaming freely throughout the enterprise has been proven to improve productivity and communications. Employees are now demanding wireless service.

But for IT professionals, selecting an enterprise class wireless solution has not been easy. Security concerns, management of APs, and seamless integration with wired networks are just some of the challenges. Is the right choice a full featured AP or a thin AP with a wireless LAN switch? The answer depends on the size and type of wireless LAN you want to deploy and Foundry's IronPoint™ wireless solutions offer the flexibility of both.

FOUNDRY'S IRONPOINT™ WIRELESS SOLUTIONS

Foundry Networks® IronPoint™ wireless solutions are truly revolutionary and provide all the features that enterprises are demanding in a leading edge wireless network solution.

- ▶ *Strong Security*
- ▶ *Seamless Mobility*
- ▶ *Enhanced User Policies*
- ▶ *Centralized Management*
- ▶ *Leading Standards Based Solutions*
- ▶ *Seamless Integration With Foundry Wired Networks*
- ▶ *Strong Investment Protection*
- ▶ *Ease-of-Use*

ENTERPRISE-CLASS WITH UNIVERSAL APPEAL

To put it simply, Foundry's IronPoint™ 200 AP is the ultimate in flexibility. The IronPoint™ 200 AP can be implemented as a full featured AP with its own embedded management for small wireless networks requiring only a few access points. It can be implemented with Foundry's IronView Network Manager to scale the wireless network to serve many medium to large sized companies.

For customers demanding the most from their wireless LANs, IronPoint™ 200 APs can be used with Foundry's Wireless Enabled FastIron® Edge Switches (FES) to provide exceptional security, mobility, and unmatched scalability. An optimal solution for large enterprise and hot spot providers.

By integrating IronPoint™ 200 APs with Foundry's mature switching platform, Foundry achieves a solution with sophisticated next generation features, providing ironclad security and lowered cost of ownership. Not only is authentication, security, roaming, and scalability functions enhanced, but the ability to manage the wireless airwaves is greatly improved. Automated channel selection, five levels of power management and load balancing can help reduce installation and maintenance overhead.

Foundry IronPoint™ AP's ability to adapt to each customer's wireless requirements is achieved through software upgrades—to both IronPoint™ 200 APs and Foundry's family of FES switches. IronPoint™ future proofs customer wireless investments through unmatched flexibility and field upgradeability. Through cost effective software upgrades, Foundry's wireless access points and wireless enhanced switches will provide years of leading edge wireless and wired service—allowing customers to integrate wireless technology into their wired network with the utmost confidence.

Foundry's IronPoint™ Wireless Solution offers:

- ▶ *One AP for all your enterprise wireless needs. Powerful AP hardware with different AP software versions for maximum feature & topology flexibility.*
- ▶ *Flexible enough for simple one-on-one management or for fully centralized management.*
- ▶ *Full featured AP or intelligent AP combined with Foundry's Wireless Enabled FastIron LAN switches for enhanced features and unmatched scalability.*

The choice is yours!

IMPLEMENT WITH CONFIDENCE

Foundry Networks is a leader in high performance, and in feature rich and cost effective networking solutions with many years of solid experience in secure data networks. Foundry Networks is a member of the WiFi Alliance. Working with the WiFi Alliance ensures maximum compatibility with other WiFi Alliance approved 802.11 products. Foundry understands and fills the need for fast, robust, and standards-based networking infrastructure to run mission critical business applications.

With Foundry IronPoint™ wireless products, wireless becomes an integral part of your wired network, not a disruption to your wiring closet. Whether it's wired or wireless, Foundry Networks will be here to support your networking requirements today and tomorrow. Let us help you build the network of tomorrow with confidence. Begin by calling your Foundry Networks sales representative today.

IRONPOINT™ 200 AP HIGHLIGHTS

- ▶ *Dual band access point for high-performance access.*
- ▶ *Support for 802.11a 5GHz 54-Mbps, 802.11a Turbo 5GHz 108-Mbps, 802.11b 2.4GHz 11-Mbps, 802.11g 2.4 GHz 54-Mbps.*
- ▶ *External antenna support for 802.11b/g radio using MC Card (Lucent) connector*
- ▶ *Industry leading configuration flexibility and product family compatibility for unsurpassed functionality and scalability.*
- ▶ *Flexible management options with built-in management or centralized management platform with IronView Network Manager, industry standard CLI, Web GUI, SSH v2, and SNMP v1/2/3.*
- ▶ *Leading-edge and standards-based authentication and data privacy for strong enterprise class security.*
- ▶ *Support for 802.1x authentication, Preshared Key authentication, MAC Address authentication, WPA2 (TKIP & AES-CCM), Dynamic WEP, Static WEP.*
- ▶ *Support for EAP-TLS, EAP-TTLS, EAP-MD5, EAP-TTLS/MSCHAPv2, PEAPv0-MSCHAPv2, PEAPv1-MSCHAPv2, PEAPv1/EAP-GTC, EAP-SIM*
- ▶ *Advanced Enterprise Features—Automatic channel selection, five levels of power control, 802.3af Power-over-Ethernet support.*
- ▶ *Rapid handoff with IAPP IEEE 802.11f for seamless Layer2 roaming.*
- ▶ *Universal global support for multi-country radio frequency and channel configuration.*
- ▶ *Wi-Fi compatibility ensures interoperability with all Wi-Fi compatible laptops, handhelds, PDAs, and other mobile wireless devices.*

IRONPOINT™ 200 FEATURE OVERVIEW

Foundry's IronPoint™ APs and Wireless Enabled Switches provide a rich set of enterprise class features to help secure and enable seamless wireless integration with the wired LAN.

AUTHENTICATION FEATURES

- ▶ *Open/Share Authentication*
 - ▶ *802.1X Authentication*
 - ▶ *EAP-TLS, EAP-TTLS, EAP-MD5, EAP-TTLS/MSCHAPv2, PEAPv0-MSCHAPv2, PEAPv1-MSCHAPv2, PEAPv1/EAP-GTC, EAP-SIM*
 - ▶ *3rd Party RADIUS Support*
 - ▶ *Local MAC Address Authentication*
 - ▶ *RADIUS MAC Address Authentication*
 - ▶ *Active Directory and LDAP Support (3rd Party)*
 - ▶ *IPSec/VPN Pass-through Support (IronPoint FES Switch)*
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SECURITY FEATURES

- ▶ *Static WEP Support (64-bit, 128-bit, 152-bit)*
 - ▶ *802.1x Dynamic WEP Support (Unique Session Keys/Dynamic Key Rotation)*
 - ▶ *Broadcast and Session Key Refresh Rate*
 - ▶ *802.1X Re-authentication Refresh Rate*
 - ▶ *WPA2 (TKIP & AES-CCM) with Preshared Keys*
 - ▶ *WPA2 (TKIP & AES-CCM) with 802.1x Support*
 - ▶ *802.11i AES HW Compliant (software upgrade when ratified)*
 - ▶ *802.1X Dynamic VLAN Policies*
 - ▶ *Native VLAN per SSID*
 - ▶ *Management VLAN*
 - ▶ *Intrusion Detection & Lockout*
 - ▶ *Automatic Port Disablement (IronPoint FES Switch)*
 - ▶ *Scheduled AP Power Up and Power Down (IronPoint FES Switch)*
 - ▶ *802.1X AP Authentication To Switch*
 - ▶ *Wireless Client to Wireless Client Filtering*
 - ▶ *Wireless Side Local Management Filtering*
 - ▶ *Ethernet Type Filtering*
 - ▶ *SSID Broadcast Suppression*
 - ▶ *Physical AP Locking Mechanism*
 - ▶ *RF Monitoring and Rogue Detection*
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AP & NETWORK FEATURES

- ▶ *Multi-Country Support*
- ▶ *Full Featured FastIron Edge Switch Support*
- ▶ *Mounting Bracket for Wall, Ceiling, and Tabletop*
- ▶ *Integrated AP Locking Mechanism*
- ▶ *LEDs For Status, Link, Radio a, Radio b/g*
- ▶ *Auto-sensing 10/100BASE-T PoE Port*
- ▶ *Power Over Ethernet (PoE) Support—802.3af*
- ▶ *Managed PoE Support (IronPoint FES Switch)*
- ▶ *802.11a, 802.11b, 802.11g Standards*
- ▶ *802.11a Turbo Mode (with supported NICs)*
- ▶ *Simultaneous Dual Radio Support 2.4-GHz and 5-GHz*
- ▶ *Integrated Antenna Support For 802.11a/b/g*

AP & NETWORK FEATURES (CONTINUED)

- ▶ *External Antenna Support for 802.11b/g using*
 - ▶ *MC Card (Lucent) Connector*
 - ▶ *Plenum Rated UL 2043 AP Housing*
 - ▶ *Automatic Channel Assignment*
 - ▶ *Adjustable Power Levels*
 - ▶ *AP Load Balancing*
 - ▶ *Maximum Speed Setting*
 - ▶ *VLAN Support—64 VLANs*
 - ▶ *Fragmentation Threshold Setting*
 - ▶ *Idle Timeout (set at 30 minutes)*
 - ▶ *Link Aggregation Support—802.3ad (IronPoint FES Switch)*
 - ▶ *Layer 2 Roaming—802.11f IAPP*
 - ▶ *Layer 3 Roaming (IronPoint FES Switch)*
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MANAGEMENT FEATURES

- ▶ *CLI Console*
 - ▶ *Telnet Support*
 - ▶ *Disable Telnet Support*
 - ▶ *SSH v2 Support*
 - ▶ *HTTP/HTTPS Support*
 - ▶ *Disable HTTP/HTTPS Support*
 - ▶ *User Definable HTTP/HTTPS Port Number*
 - ▶ *SNMP Support*
 - ▶ *SNMP v3 Support*
 - ▶ *Syslog RFC 3164 Support*
 - ▶ *Management VLAN Support*
 - ▶ *Event Logging*
 - ▶ *MIB Support*
 - ▶ *Dual Image Support on AP*
 - ▶ *Centralized AP & Configuration Management—*
 - ▶ *IronView Network Manager*
 - ▶ *Foundry Discovery Protocol (IronPoint FES Switch)*
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REPORTING FEATURES

- ▶ *User/Device Access Logging and Reporting*
 - ▶ *AP Usage Reports*
 - ▶ *sFlow (RFC 3176) Session Tracking and Reporting (IronPoint FES Switch)*
 - ▶ *External Syslog Support*
 - ▶ *Security Alert Support*
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HIGH AVAILABILITY FEATURES

- ▶ *Redundant Power Supplies (IronPoint FES Switch)*
- ▶ *Redundant AP Configuration*
- ▶ *Centralized Configuration Management & Storage*

IRONPOINT™ 200 PHYSICAL & OPERATIONAL SPECIFICATIONS

Foundry's IronPoint™ 200 AP is a global wireless access point that can be configured for use in many countries.

ELECTRICAL SPECIFICATIONS

IEEE 802.11 B/G

2.400 ~ 2.4835 GHz for US/Canada, ETSI, Japan (802.11g)
2.400 ~ 2.4835 GHz for US/Canada, ETSI (802.11b)
2.400 ~ 2.497 GHz for Japan (802.11b)
2.400 ~ 2.4835 GHz for Taiwan (802.11g)
2.400 ~ 2.4835 GHz for Taiwan (802.11b)

802.11g Modulation Types: CCK, BPSK, QPSK, OFDM
802.11b Modulation Types: CCK, BPSK, QPSK

IEEE 802.11 A

5.15 ~ 5.25 GHz (FCC UNII-low band) for US/Canada, Japan
5.25 ~ 5.35 GHz (FCC UNII-middle band) for US/Canada
5.725 ~ 5.825 GHz (FCC UNII-high band) for US/Canada
5.50 ~ 5.70 GHz for ETSI Europe
5.25 ~ 5.35 GHz (FCC UNII-middle band) for Taiwan
5.725 ~ 5.825 GHz (FCC UNII-high band) for Taiwan

Modulation Types: BPSK, QPSK, 16-QAM, 64-QAM

OPERATING RADIO SPECIFICATIONS

(Note: Channel specifications may vary with country regulations as they change)

IEEE 802.11 B/G

1 – 11 channels normal mode (FCC, IC)
1 - 11 channels normal mode (Taiwan)
1 – 13 channels (ETSI)
10 – 13 channels (France)
1 – 14 (MKK)

Maximum Clients: 64

Data Rate 802.11b: 11, 5.5, 2, 1 Mbps
Data Rate 802.11g: 54, 48, 36, 24, 18, 12, 11, 9, 6 Mbps

Power Settings: 100%, 50%, 25%, 12.5%, 6.25%
Maximum Transmit Power: 18 dBm for 802.11b,
16 dBm for 802.11g (+/-) 1 dBm

Antenna Type: Omni Directional Fixed Antenna
Integrated Antenna Range 802.11b: 2.4 ~ 2.4835 GHz
Integrated Antenna Range 802.11g: 2.4 ~ 2.497 GHz
Antenna Gain: 1.5 dBi

External Antenna Support with MC Card (Lucent) connector.
Automatic disabling of integrated 802.11b/g antenna with
external antenna attached.

IEEE 802.11 A

13 channels normal mode, 5 channels turbo mode (US & Canada)
8 channels normal mode, 3 channels turbo mode (Taiwan)
4 channels normal mode, 1 channel turbo mode (Japan)
11 channels normal mode, 4 turbo mode (ETSI)

Maximum Clients: 64

Data Rate 802.11a: 54, 48, 36, 24, 18, 12, 9, 6 Mbps
Data Rate 802.11a Turbo: 108, 96, 72, 48, 36, 24, 18, 12 Mbps

Power Settings: 100%, 50%, 25%, 12.5%, 6.25%
Maximum Transmit Power: 19 dBm for 802.11a (+/-) 1 dBm

Antenna Type: Omni Directional Fixed Antenna
Integrated Antenna Range 802.11a: 5.15 ~ 5.850GHz

Antenna Gain: 4.5 dBi

RADIO MODULATION

802.11 A — ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING (OFDM)

BPSK @ 6 and 9 Mbps
QPSK @ 12 and 18 Mbps
16QAM @ 24 and 36 Mbps
64 QAM @ 48 and 54 Mbps

802.11 B — DIRECT SEQUENCE SPREAD SPECTRUM (DSSS)/ COMPLEMENTARY CODE KEYING (CCK)

DSSS-DBPSK @ 1 Mbps
DSSS-DQPSK @ 2 Mbps
CCK-DBPSK @ 5.5 Mbps
CCK-DQPSK @ 11 Mbps

802.11 G — DSSS/CCK/OFDM

DSSS-DBPSK @ 1 Mbps
DSSS-DQPSK @ 2 Mbps
CCK-DBPSK @ 5.5 Mbps
CCK-DQPSK @ 11 Mbps
OFDM-BPSK @ 6 and 9 Mbps
OFDM-QPSK @ 12 and 18 Mbps
OFDM-16QAM @ 24 and 36 Mbps
OFDM-64QAM @ 48 and 54 Mbps

RADIO CHANNEL AVAILABILITY — US & CANADA

802.11A CHANNEL — CENTER FREQUENCY

36 – 5.180 Ghz
40 – 5.200 Ghz
44 – 5.220 Ghz
48 – 5.240 Ghz
52 – 5.260 Ghz
56 – 5.280 Ghz
60 – 5.300 Ghz
64 – 5.320 Ghz
149 – 5.745 Ghz
153 – 5.765 Ghz
157 – 5.785 Ghz
161 – 5.805 Ghz
165 – 5.825 Ghz

802.11B/G CHANNEL — CENTER FREQUENCY

1 – 2.412 Ghz
2 – 2.417 Ghz
3 – 2.422 Ghz
4 – 2.427 Ghz
5 – 2.432 Ghz
6 – 2.437 Ghz
7 – 2.442 Ghz
8 – 2.447 Ghz
9 – 2.452 Ghz
10 – 2.457 Ghz
11 – 2.462 Ghz

RADIO CHANNEL AVAILABILITY — ETSI

802.11A CHANNEL — CENTER FREQUENCY

100 – 5.500 Ghz
104 – 5.520 Ghz
108 – 5.540 Ghz
112 – 5.560 Ghz
116 – 5.580 Ghz
120 – 5.600 Ghz
124 – 5.620 Ghz
128 – 5.640 Ghz
132 – 5.660 Ghz
136 – 5.680 Ghz
140 – 5.700 Ghz

802.11B/G CHANNEL — CENTER FREQUENCY

1 – 2.412 Ghz
2 – 2.417 Ghz
3 – 2.422 Ghz
4 – 2.427 Ghz
5 – 2.432 Ghz
6 – 2.437 Ghz
7 – 2.442 Ghz
8 – 2.447 Ghz
9 – 2.452 Ghz
10 – 2.457 Ghz
11 – 2.462 Ghz
12 – 2.467 Ghz
13 – 2.472 Ghz

RADIO CHANNEL AVAILABILITY — JAPAN

802.11A CHANNEL — CENTER FREQUENCY

34 – 5.170 Ghz
38 – 5.190 Ghz
42 – 5.210 Ghz
46 – 5.230 Ghz

802.11B/G CHANNEL — CENTER FREQUENCY

1 – 2.412 Ghz
2 – 2.417 Ghz
3 – 2.422 Ghz
4 – 2.427 Ghz
5 – 2.432 Ghz
6 – 2.437 Ghz
7 – 2.442 Ghz
8 – 2.447 Ghz
9 – 2.452 Ghz
10 – 2.457 Ghz
11 – 2.462 Ghz
12 – 2.467 Ghz
13 – 2.472 Ghz
14 – 2.484 Ghz (802.11b only)

RADIO RECEIVE SENSITIVITY — INTEGRATED ANTENNA

802.11A @ 5.15-5.250 GHz

54 Mbps: -70 dBm
 48 Mbps: -73 dBm
 36 Mbps: -80 dBm
 24 Mbps: -82 dBm
 18 Mbps: -84 dBm
 12 Mbps: -86 dBm
 9 Mbps: -87 dBm
 6 Mbps: -88 dBm

802.11G @ 2.412 GHz

54 Mbps: -70 dBm
 48 Mbps: -72 dBm
 36 Mbps: -77 dBm
 24 Mbps: -81 dBm
 17 Mbps: -85 dBm
 12 Mbps: -86 dBm
 9 Mbps: -87 dBm
 6 Mbps: -88 dBm

802.11B @ 2.412 GHz

11 Mbps: -87 dBm
 5.5 Mbps: -90 dBm
 2 Mbps: -90 dBm
 1 Mbps: -93 dBm

OPTIMAL RADIO RANGE (100% FULL POWER)

| | TYPICAL INDOOR | TYPICAL OUTDOOR |
|---------------|--|--|
| 802.11a Radio | 66 feet (20 m) – 72 Mbps 82 feet (25 m) – 54 Mbps 115 feet (35 m) – 48 Mbps 131 feet (40 m) – 36 Mbps 148 feet (45 m) – 24 Mbps 164 feet (50 m) – 18 Mbps 180 feet (55 m) – 12 Mbps 216 feet (66 m) – 9 Mbps 230 feet (70 m) – 6 Mbps | 131 feet (40 m) – 72 Mbps 279 feet (85 m) – 54 Mbps 820 feet (250 m) – 48 Mbps 1016 feet (310 m) – 36 Mbps 1311 feet (400 m) – 24 Mbps 1459 feet (445 m) – 18 Mbps 1492 feet (455 m) – 12 Mbps 1525 feet (465 m) – 9 Mbps 1672 feet (510 m) – 6 Mbps |
| 802.11b Radio | 197 feet (60 m) – 11 Mbps 230 feet (70 m) – 5.5 Mbps 272 feet (83 m) – 2 Mbps 279 feet (85 m) – 1 Mbps | 984 feet (300 m) – 11 Mbps 1525 feet (465 m) – 5.5 Mbps 1639 feet (500 m) – 2 Mbps 1689 feet (515 m) – 1 Mbps |
| 802.11g Radio | 66 feet (20 m) – 54 Mbps 82 feet (25 m) – 40 Mbps 115 feet (35 m) – 36 Mbps 141 feet (43 m) – 24 Mbps 164 feet (50 m) – 18 Mbps 187 feet (57 m) – 12 Mbps 233 feet (71 m) – 9 Mbps 263 feet (80 m) – 6 Mbps 279 feet (85 m) – 5 Mbps 295 feet (90 m) – 2 Mbps 305 feet (93 m) – 1 Mbps | 269 feet (82 m) – 54 Mbps 328 feet (100 m) – 48 Mbps 984 feet (300 m) – 36 Mbps 1082 feet (330 m) – 24 Mbps 1148 feet (350 m) – 18 Mbps 1475 feet (450 m) – 12 Mbps 1590 feet (485 m) – 9 Mbps 1623 feet (495 m) – 6 Mbps 1672 feet (510 m) – 5 Mbps 1705 feet (520 m) – 2 Mbps 1722 feet (525 m) – 1 Mbps |

Technical Specification

IEEE COMPLIANCE

- 802.11a 5 GHz 54 Mbps OFDM
- 802.11b 2.4 GHz 11 Mbps DSSS/CCK
- 802.11f IAPP
- 802.11g 2.4 GHz 54 Mbps DSS/CCK/OFDM
- 802.11h DFS/TPC
- 802.11i AES hardware
- 802.1p/QVLAN tagging and priority
- 802.1x wireless station authentication with dynamic VLAN assignment and Ethernet interface authentication (supplicant)
- 802.3 10BaseT
- 802.3u 100Base-Tx
- 802.3af Power over Ethernet

WIRELESS LAYER 2

FILTERING

- MAC address filter
- Local station bridging filter
- Station management filter
- Ethertype filter

WIRELESS ENCRYPTION

- RC4 64-bit/128-bit/152-bit Wired Equivalent Privacy (WEP)
- Temporal Key Integrity Protocol (TKIP)
- Advanced Encryption Standard (AES)
- Pairwise Master Key Security Association (PMKSA)
- WPA2 mixed-mode AES/TKIP

WIRELESS NETWORK ADMISSION CONTROL

- Shared key authentication
- Pre-shared key authentication (PSK)
- EAP-TLS
- EAP-TTLS/MSCSHAPv2
- PEAPv0-MSCHAPv2
- PEAPv1-MSCHAPv2
- PEAPv1/EAP-GTC
- EAP-SIM
- WPA2 pre-authentication

WIRELESS QUALITY OF SERVICE

- 802.1p tag mapping to priority queue
- Source/Destination MAC-address mapping to priority queue
- Ethertype mapping to priority queue
- Spectralink voice prioritization

VIRTUAL AP SUPPORT

- SSID
- BSSID
- DefaultVLAN
- Encryption
- Network admission control
- Hidden SSID
- Association timeout interval
- Authentication timeout interval
- Maximum associated clients
- WPA2 PMKSA
- Broadcast key refresh rate
- 802.1x reauthentication interval rate

RADIO SUPPORT

- 802.11g protected mode
- Dynamic automatic channel select
- Tx power
- Maximum station data rate
- Multicast data rate
- Antenna type
- Antenna diversity
- Fragmentation length
- Beacon interval
- Data beacon rate (DTIM)
- RTS threshold
- Preamble mode

RFC COMPLIANCES

- RFC 791 IP
- RFC 792 ICMP
- RFC 793 TCP
- RFC 783 TFTP
- RFC 826 ARP
- RFC 768 UDP
- RFC 894 IP over Ethernet
- RFC 1157 SNMPv1
- RFC 1215 SNMP generic traps
- RFC 1573 SNMP MIB II
- RFC 1905,1906 SNMPv2c
- RFC 2030 SNMP
- RFC 2068 HTTP
- RFC 2138 RADIUS
- RFC 3164 Syslog

SAFETY AGENCY APPROVALS

- IEC 60950:1999
- CAN/CSA C22.2 No. 60950
- UL 60950, Third Edition (2000)

- EN 60950:2000
- J60950 (H14)
- K60950

RADIO APPROVALS

- RSS210 (Canada)
- 47 CFR Part 15, Subpart C (Section 15.247), Subpart E (Section 15.407)
- EN 300 328-1
- EN 300 328-2
- EN 301 893V1.2.3 (2003-08)

EMI COMPLIANCES

- EN 301 489-1
- EN 301 489-17
- EN 55022
- EN 61000-3-2
- EN 61000-3-3
- EN 61000-4-2
- EN 61000-4-3
- EN 61000-4-4
- EN 61000-4-5
- EN 61000-4-6
- EN 61000-4-11
- EN 55024:1998
- CISPR 22
- AS/NZS 3548
- FCC Part 15, Subpart B, Class B
- ANSI C63.4-1992
- ICES-003:1997

ANTENNAS

- 5 GHz: Integrated 4.5 dBi omni-directional
- 2.4 GHz: Integrated 1.5 dBi omni-directional, external MC card connector

NETWORK MANAGEMENT

- IronView Network Manager (INM), central management
- Integrated web-based graphical user interface
- Industry standard command line interface (CLI)
- Console port
- Telnet and SSHv2
- SNMPv1, v2c, v3
- MIB I and MIB II
- HTTP, HTTPS
- FTP, TFTP
- XML
- DHCP (client)
- SNMP
- Syslog

WAN INTERFACE

- PPPoE

ELEMENT SECURITY OPTIONS

- TACACS+
- Secure Shell SSHv2
- HTTPS
- Username/password (challenge and response)
- Bi-level access mode (standard and EXEC level)

ENVIRONMENTAL

- Operating temperature: 0 oC to 50 oC
- Storage temperature: -20 oC to 70 oC
- Relative humidity: 15% to 95% non-condensing

PHYSICAL DIMENSIONS

- 1.29 in (H) x 5.40 in (D) x 8.60 in (W)
- 3.27 cm (H) x 13.73 cm (D) x 21.83 cm (W)

WEIGHT

- 1.76 lbs
- 0.80 kg
- Mount Bracket: 0.65 lbs (0.29 kg)

RELIABILITY

- MTBF: 177,000 at 50°C, 428,000 at 25°C

POWER SUPPLY

- Input: 100-240VAC, 50-60 Hz
- Output: 3.3VDC, 4A
- Power consumption: 13W max

POWER OVER ETHERNET

- 802.3af compliant class 0 device
- Input Voltage: 48V, 0.27 A, 13W max

WARRANTY

- 1-year hardware
- 90-day software

MOUNTING OPTIONS

- Plenum-rated UL 2043 housing
- Mounting bracket for wall, ceiling, and tabletop
- Lockable security key and clamp

Ordering Information

| PRODUCT PART NUMBER | PRODUCT DESCRIPTION |
|---------------------|--|
| IP200-CA | IronPoint 200 wireless access point for operation in Canada |
| IP200-ES | IronPoint 200 wireless access point for operation in Spain |
| IP200-IL | IronPoint 200 wireless access point for operation in Israel |
| IP200-JP | IronPoint 200 wireless access point for operation in Japan |
| IP200-NZ | IronPoint 200 wireless access point for operation in New Zealand |
| IP200-US | IronPoint 200 wireless access point for operation in United States |
| IP200-XX | IronPoint 200 wireless access point for operation in all other countries |
| IP-OD24100W | 3 dBi omni-directional patch antenna—2.4 GHz 802.11g/b |
| IP-DP24200G | 9 dBi directional panel antenna—2.4 GHz 802.11g/b |



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