

IRONPOINT MOBILITY AP 150 ACCESS POINT



DUAL-RADIO, TRI-MODE ACCESS POINT FOR ENTERPRISE-CLASS WIRELESS PERFORMANCE

KEY HIGHLIGHTS

- ▶ Enterprise-class access point eliminates RF channel planning, significantly reducing the total cost of ownership
- ▶ Advanced technology delivers 5-fold performance increase over conventional access points and support for 128 simultaneous wireless connections
- ▶ Multi-layered security with individual security policies ensures separation of user groups even when roaming, without reauthentication or degradation of performance
- ▶ Centralized auto-discovery, auto-channel configuration, and auto-power selection eases initial deployment, ensures ongoing ease of use, and facilitates future expansion without complexity

Overview

The IronPoint® Mobility AP 150 Access Point from Foundry Networks delivers a cost-effective, secure, high-performance 802.11b/g/a wireless solution for small to medium-sized enterprises. For deployment flexibility, the AP 150 can be powered either locally or by IEEE 802.3af Power over Ethernet (PoE) switches.

For customers planning new installations or adding capacity and coverage to existing wireless LANs (WLANs), the AP 150 is the easiest-to-deploy access point in its class. The AP 150 is a plug-and-play device that needs no configuration and no complex RF channel planning. The AP 150 automatically discovers and configures itself, and it intelligently load balances clients. The AP 150 comes standard with best-in-class security, VoWLAN support, and the reliability essential for enterprise-class wireless performance.

In addition, the AP 150 goes beyond basic over-the-air protections by providing multi-layered security policies in concert with the IronPoint Mobility Controllers.

The IronPoint Mobility AP 150 access point coupled with the IronPoint Mobility Controller provides a complete WLAN solution for management, security, and coordination for over-the-air Quality of Service (QoS).

TARGET APPLICATIONS

Offering robust wireless performance, extensive security features, simplified deployment and WLAN resiliency, the AP 150 is well-suited for a broad range of small to medium-sized environments including:

- ▶ Distributed enterprise offices
- ▶ Retail locations
- ▶ Educational campuses

Advanced Capabilities

SECURITY

The IronPoint Mobility AP 150 uses an approach beyond the basic over-the-air protections by providing multi-layered security policies that stay with clients even when roaming, without reauthentication or degradation of performance.

- ▶ Multiple ESSID/BSSID with individual security policies ensure separation of different user groups or dynamic VLAN assignments per user based on RADIUS credentials
- ▶ No security information stored or contained within the AP 150

Technical Specifications

SECURITY

- IEEE 802.1x, and open authentication support
- IEEE 802.1x with EAP-Transport Layer Security (EAP-TLS), Tunneled TLS (EAP-TTLS), Protected EAP (PEAP) MS-CHAPv2, Smartcard/Certificate, Lightweight EAP (LEAP), EAP-FAST and EAP-MD5, with mutual authentication and dynamic, per user, per session unicast and broadcast keys
- Secure HTTPS with customizable Captive Portal utilizing RADIUS
- Support static and dynamic 40-bit and 128-bit WEP keys, TKIP with MIC, AES-CCMP
- Access control entries supported per user, per AP (MAC filtering, RADIUS MAC authentication)
- Multiple ESSID/BSSID each with its own security policy
- Security cable lock (Kensington) compatible

MOBILITY

- Roaming interoperability with third-party APs
- High availability active/standby configuration for automatic failover and recovery
- No performance degradation with increased wireless clients

CENTRAL MANAGEMENT

- Central and remote management through IronPoint Mobility Controller
- Supported by IronPoint Mobility Controller release 3.3 and later
- Central and remote management and software upgrades via GUI, SNMP v1/v2, Command-Line Interface (CLI) via serial port, HTTP, HTTPS, SSH, and Telnet
- Centralized security policies for WLAN, Multiple ESSIDs, and VLANs
- Access point RF coordination with load-balancing

- ▶ Strong encryption and authentication support with 802.1x and EAP with mutual authentication and dynamic, per user, per session unicast and broadcast keys

PERFORMANCE AND QUALITY

The IronPoint Mobility AP 150 Access Point ensures high performance of simultaneous 802.11a, 802.11b, and 802.11g clients through dual 802.11a and 802.11b/g radios and RF coordination with load balancing.

The AP 150 can dynamically reserve bandwidth over-the-air to provide unprecedented VoIP scalability, up to 128 simultaneous wireless connections, and quality even in heavily congested wireless environments.

SEAMLESS ENTERPRISE DEPLOYMENTS

Broad scale deployment of a WLAN requires access points to work with the existing infrastructure. The AP 150 along with the IronPoint Mobility Controller offer flexible deployment options supporting Layer 2 or Layer 3 connectivity.

The AP 150 integrates seamlessly with Foundry's industry leading IEEE 802.3af PoE switches in existing or new network infrastructures supporting PoE edge devices.

- Centralized auto-discovery, auto-channel configuration, and auto-power selection for APs
- Remote logging via Syslog v1 and v2

WIRELESS SPECIFICATIONS

- IEEE 802.11 a/b/g
- IEEE 802.11i support (AES, WEP, and WPA2)
- IEEE draft 802.11e support (QoS)
- Wireless Medium Access Certified IEEE 802.11 MAC standard
- Transmit power control in 1 dBm increments
- RP-SMA female connectors
- Frame Size Peak frame size of < 2250 bytes
- Fragmentation and Reassembly of 802.11/Ethernet frames supported
- Active scanning and passive scanning support
- Client pre-authenticate support

- Rapid change to and from power save mode support
- Power Save Mode supported in both QoS mode and non-QoS mode
- Sleep Mode drivers for IEEE 802.11 wireless voice handsets

IEEE 802.11A SPECIFICATIONS

- 5.180 – 5.240 GHz, 8 channels (34, 36, 38, 40, 42, 44, 46, 48)
- 5.280 – 5.320 GHz; 4 channels (52, 56, 60, 64)
- 5.745 – 5.825 GHz; 5 channels (149, 153, 157, 161, 165)
- Operating channels configurable based on country regulations
- Data rates 54, 48, 36, 24, 18, 12, 9 and 6 Mbps with automatic rate adaptation
- Transmit power ~ +16 dBm (40 mW) nominal
- Receive sensitivity -70 dBm at 54 Mbps, -86 dBm at 6 Mbps

IEEE 802.11B/G SPECIFICATIONS

- 2.4 GHz - 2.4835 GHz
- 2.4 GHz - 2.497 GHz Japan only
- Operating channels 1-11 US/Canada, 1-13 Europe, and 1-14 Japan)
- 3 non-overlapping channels
- Transmit Power ~+20 dBm (100 mW) nominal
- 802.11b Data Rates 11, 5.5, 2 and 1 Mbps with automatic rate adaptation
- 802.11g Data Rates 54, 48, 36, 24, 18, 12, 11, 9, 6, 5.5, 2, 1 Mbps
- 802.11b Receive Sensitivity -85 dBm at 11 Mbps, -93 dBm at 1 Mbps
- 802.11g Receive Sensitivity -73 dBm at 54 Mbps, -85 dBm at 6 Mbps

INTERFACES

- Wireless Interfaces: One 802.11b/g and one 802.11a
- Ethernet Interfaces: One 10/100 Mbps Fast Ethernet auto-sensing

PHYSICAL SPECIFICATIONS

- Dimensions: 9.25” (W) × 5.5” (L) × 1.25” (H)
- Weight: 15.2 oz (0.95 lbs) / 431g
- Power Type: Power over Ethernet (IEEE 802.3af)
- Maximum Power Draw: 10W
- LED indicators: monitoring power, 802.11b/g activity, 802.11a activity, and Ethernet activity

ENVIRONMENTAL

- Indoor Operating Temperature: 32°F to 131°F (0°C to 55°C)
- Indoor Operating Humidity: 0% to 95% humidity (non-condensing)
- Indoor Storage and Transit Temperature: -14°F to 158°F (-10°C to 70°C)
- Indoor Storage and Transit Humidity: 0% to 95% relative humidity (non-condensing)

REGULATORY COMPLIANCE AND SAFETY APPROVALS

- Safety: UL1950, UL2043 (plenum)
- RF certifications: Radio compliance:
 - FCC Part 15
 - Canada RSS210
 - EN 300 328 V1.6.1 (11/2004)
 - EN 301 893 V1.3.1 (08/2005)
 - Japan Technical Regulations
- EMC: FCC part 15
EN 301 489-17 V1.2.1 (08/2002)
- RoHS: compliant (6 of 6)

WARRANTY

- 1 year limited lifetime hardware warranty
- 90 days software

Ordering Information

PART NUMBER	DESCRIPTION
IP-MAP-150	<ul style="list-style-type: none"> • Dual 802.11a/b/g wireless interfaces, configurable for simultaneous 802.11a and 802.11g/b support • Includes dual-band 802.11a/b/g omnidirectional antennas: 2.4 GHz (4dBi) and 5 GHz (5 dBi). RP SMA Female connector for optional external antennas (sold separately) • Includes wall mounting bracket and screws. Optional ceiling mounting bracket available (sold separately) • Requires 802.3af power over Ethernet switches or inline power injectors (sold separately). • For use with IronPoint Mobility Series MC500, MC1000 and MC3000 Mobility Controllers with Release 3.3 (sold separately)
IP-ACC-ANT3-50MD	2.4 GHz 802.11 b/g Ceiling Mount Omnidirectional Antenna (5.5 dBi)—3 foot pigtail and mounting hardware included
IP-ACC-ANT3-20HA	2.4 GHz 802.11 b/g Ceiling Mount Bi-directional Antenna (4 dBi)—0.5 foot pigtail and mounting hardware included
IP-ACC-ANT3-130P	2.4 GHz 802.11 b/g Directional Panel Antenna (13 dBi)—1 foot pigtail and mounting hardware is sold separately
IP-ACC-ANT3-130P-MT	Mounting hardware for IP-ACC-ANT3-130P antenna
IP-AP200-SCRMKIT	Suspended Ceiling Rail Mounting Kit for IronPoint Mobility Series AP 200 and AP 150 Access Points
IP-AP200-ASCMKIT	Above Suspended Ceiling Mounting Kit (T-Bar Hanger) for IronPoint Mobility Series AP 200 and AP 150 Access Points



Foundry Networks, Inc.
Corporate Headquarters
4980 Great America Parkway
Santa Clara, CA 95054

U.S. and Canada Toll-free:
1-888-TURBOLAN (887-2652)
Tel: +1 408.207.1700
Fax: +1 408.207.1709

info@foundrynet.com
www.foundrynetworks.com

Although Foundry has attempted to provide accurate information in these materials, Foundry assumes no legal responsibility for the accuracy or completeness of the information. More specific information is available on request from Foundry. Please note that Foundry's product information does not constitute or contain any guarantee, warranty or legal binding representation, unless expressly identified as such in duly signed writing.
© 2007 Foundry Networks, Inc. All Rights Reserved. Foundry Networks, BigIron, NetIron, IronShield, IronView, IronWare, JetCore, JetScope, MetroLink, Terathon, TrafficWorks, Power of Performance and the 'Iron' family of marks are trademarks or registered trademarks of Foundry Networks, Inc. in the United States and other countries. sFlow is a registered trademark of InMon Corporation. All others are trademarks of their respective owners.
FDRY_DS-055_IP_2007_7_Rev01