

IRONPOINT MOBILITY

AP300 ACCESS POINTS



HIGHEST-PERFORMANCE ACCESS POINT FOR LARGER
CONVERGED VOICE, VIDEO, AND DATA WIRELESS NETWORKS

KEY HIGHLIGHTS

- ▶ Deployment flexibility, high-bandwidth connectivity, high density client support, and a high quality solution for converged IP applications
- ▶ Hardware flexibility enables multiple deployment options with both 2.4 GHz and 5 GHz frequency bands enabled using 40 MHz channel bonding
- ▶ Over-the-air Quality of Service (QoS) delivers full speed 802.11n draft 2.0 and supports legacy 802.11a/b/g devices simultaneously
- ▶ Best investment protection; upgrade to 802.11n with only software; no need to replace radios
- ▶ Interoperable with all 802.11n devices
- ▶ Dual-band external antenna options optimized for MIMO
- ▶ Plug-and-play deployment
- ▶ Multi-layered security including standard 802.11i security and automatic 802.11n rogue access points detection and monitoring
- ▶ Powered by existing 802.3af PoE and new 802.3at PoE+, using existing wired infrastructure and protecting network investment

Overview

IronPoint Mobility Series AP300 Access Points from Foundry Networks are the industry's highest performing 802.11n AP delivering high performance and full speed draft 2.0 802.11n while simultaneously supporting legacy 802.11a/b/g devices. These access points provide sustained and increased capacity through large WLAN deployments using their unique "all available" channel layering capabilities to simultaneously serve any given area at any particular time, without increasing network complexity.

As a key component of Foundry's unique channel spanning architecture, the AP300 series provides the maximum coverage for 802.11n without compromising performance or network capacity. These software-upgradeable access points allow enterprises to reap the benefits of 802.11n wireless technology today with flexible and simple deployment options.

Advanced Capabilities

The IronPoint Mobility AP300 Series of flagship access points are available in four configurations:

- ▶ AP320: Dual 802.11n radio with 3x3 MIMO antenna array
- ▶ AP310: Single 802.11n radio with 3x3 MIMO antenna array
- ▶ AP311: Dual radio with one 802.11n radio with 3x3 MIMO and one 802.11a/b/g radio (a/b/g radio is field upgradeable to 802.11n via software)
- ▶ AP302: Dual 802.11a/b/g radios, (field upgradeable to 802.11n via software)

The AP300 series is ideally suited for enterprises with bandwidth intensive applications, and businesses that require high capacity, scalability, and speed from their wireless network. IronPoint Mobility Series AP300 Access Points are the only enterprise class access points that let customers protect their investment in legacy 802.11a/b/g client infrastructure. This solution enables both 802.11n and 802.11a/b/g on the same access point without compromising speed, performance and capacity using Foundry's unique Over-the-Air QoS technology.

- ▶ 3x3 MIMO (Multiple Input, Multiple Output) technology delivers up to 300 Mbps data rates with flexible configuration options.
- ▶ Eliminates the need for complex channel planning and provides plug-and-play configuration for simple and easy deployment.
- ▶ Multiple powering options include 802.3af PoE and 802.3at PoE+.
- ▶ Only AP in the industry that enables deployment of 11n in 2.4 GHz with higher speed 40 MHz, for full 300 Mbps speeds.
- ▶ Only AP in the industry that provides the ultimate flexibility for migrating to 802.11n. Buy 802.11a/b/g now, upgrade to 11n in the future with an additional software license. No new hardware needed. No need to physically touch the AP.
- ▶ Flexible hardware allows multiple deployment options with dual-band capable (2.4 GHz and 5 GHz) radios simultaneously enabled, including an+bgn, bg+an, bgn+a. Also supports an+an, bgn+bgn.
- ▶ Both radios may be simultaneously powered by existing 802.3af PoE, protecting investments in wired infrastructure while providing up to 300 Mbps data rates.
- ▶ Foundry's Over-the-Air QoS technology provides high performance full-speed draft 2.0 802.11n while supporting legacy a/b/g devices allowing, the WLAN to effectively meeting bandwidth demands and supporting the highest possible wireless client density.

Technical Specifications

VOICE OVER IP SUPPORT

- SIP and H.323 support
- Dynamic out-of-the-box support for SIP and H.323v1 applications and codecs
- Automatic, stateful flow detectors for SIP, H.323, Cisco SCCP, SpectraLink SVP and Vocera
- Call Admissions Control and Call Load Balancing

QUALITY OF SERVICE

- Configurable dynamic QoS rules
- Over-the-air resource reservation
- User-configurable static and dynamic QoS rules per application (user-defined) and per user (stations, users, and port numbers)
- WMM Support

SECURITY

- Combination of captive portal, 802.1x and open authentication
- Advanced security using WPA2
- 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 using RADIUS
- Static and dynamic 40-bit and 128-bit WEP keys, TKIP with MIC, AES
- Radius assisted, per-user and per-ESSID access control via MAC Filtering

- Multiple ESSID/BSSID, each with the flexibility of separate and shared security policy
- All radios are capable of scanning 802.11n, 802.11a and 802.11b/g b-g for rogue devices

MOBILITY

- Zero-loss handoffs
- Infrastructure-controlled zero-loss handoff mechanism for standard Wi-Fi clients

CENTRALIZED MANAGEMENT

- Zero-configuration
- Automatically selects power and channel settings
- Automatically discovers controllers and downloads configuration settings
- Zero touch, plug-and-play deployments

- Centralized and remote management and software upgrades via System Director Web-based GUI, SNMP, command line interface (CLI) via serial port, SSH, Telnet, centrally managed via EzRF Management Suite
- Centralized Security Policy for WLAN, Multiple ESSIDs and VLANs with their own administrative and security policies
- Coordination of access points with load-balancing for predictable performance
- Centralized auto-discovery, auto-channel configuration, and auto-power selection for APs
- Co-channel interference managements

WIRELESS SPECIFICATIONS

- IEEE 802.11 a/b/g/n, IEEE 802.11i support (AES, WEP, WPA, WPA2), IEEE 802.11e, WMM
- Optimal power control in 1 dBm increments
- Ability to disable unused radios via software for reduced power consumption
- Standard multiband, omni-directional white antenna (included)
- Standard antenna gain~2.2 dBi for 2.4 GHz, and 3 dBi for 5 GHz
- RP SMA connectors for external antenna options
- Support for clients that perform active scanning and passive scanning
- Support for clients that pre-authenticate
- Support for clients that change to and from power save mode rapidly
- Power save mode for clients in QoS mode and non-QoS mode

IEEE 802.11N SPECIFICATIONS

- Frequency band: 2.402 to 2.485 GHz, 5.15 to 5.25 GHz, 5.725 to 5.825 GHz
- Operating channels: 1 through 11 for 2.4 GHz band

- Operating channels: 32 through 160 for 5 GHz band
- Data rates (Mbps): 20 MHz: 130, 117, 104, 78, 65, 58.5, 54, 52, 48, 39, 36, 26, 24, 19.5, 18, 13, 12, 11, 9, 6.5, 5.5, 2, 1 Mbps
- Data rates (Mbps): 40 MHz: 300, 270, 243, 216, 162, 135, 121.5, 108, 81.5, 81, 54, 48, 40.5, 36, 27.5, 27, 24, 18, 13.5, 12, 11, 9, 6, 5.5, 2.1 Mbps with automatic rate adaptation
- Nominal transmit power: 2.4 GHz: 17 dBm, 5 GHz: 13 dBm
- Receive sensitivity (for max data rates): 11a: -81 dBm, 11n (5 GHz) -72 dBm, 11g: -83 dBm,
- 11n (2.4 GHz): -74 dBm

IEEE 802.11A SPECIFICATIONS

- Frequency band and operating channels (configurable based on country regulations): 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 and 64), 5.745 –5.825 GHz; 5 channels (149, 153, 157, 161, and 165),5500-5700: 11 channels 100,104,108,112,116,120,124,128, 132,136,140
- Data rates: 54, 48, 36, 24, 18, 12, 9 and 6 Mbps with automatic rate adaptation
- Transmit power: 13 dBm
- Receive sensitivity: -81 dBm at 54 Mbps

IEEE 802.11B/G SPECIFICATIONS

- Frequency band: 2.4 GHz – 2.4835 GHz (US, Europe), 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: 17 dBm
- 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: -94 dBm at 1 Mbps
- 802.11g receive sensitivity: -83 dBm at 54 Mbps

PHYSICAL SPECIFICATIONS

- Dimensions: 9 7/8" X 6 7/8" X 11/16" (25 cm x 17.5 x 2.7 cm)
- Weight: 3lbs (1.36 kgs) without packaging
- Power: 802.3af PoE, 802.3 at (draft), 5V DC input
- Draws 11.5W to 17W depending on configuration
- Operating temp 0°C to 50°C (32°F to 122°F)
- Operating humidity: 90% (non condensing)
- Storage temperature: -10°C to +70°C ambient
- Storage humidity: 95% (non condensing)
- Interfaces: 1 auto sensing 10/100/1000 Base-TX Ethernet (RJ-45)
- Dual-band radios support any combination of 802.11n, 802.11a, 802.11b, 802.11g
- 3-6 external antenna interfaces (reverse polarity SMA)
- Kensington MicroSaver Lock-compatible
- 1 RJ45 console port (reserved for future use)
- 5 LEDs for monitoring power, Ethernet activity, 802.11 activity and 802.11 receive

STANDARD WARRANTY

- Hardware: 1 year
- Software: 90 days



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