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Bluesocket BlueSecure™ Access Point 1800

Dual Radio 802.11n Access Point

Bluesocket's BlueSecure™ family of high-performance Access Points are the perfect fit for enterprises looking to deploy secure wireless networks. An integral component of the Bluesocket Enterprise Mobility Solution, BlueSecure APs are completely plug-and-play requiring no manual configuration and deliver interference-free communication with Bluesocket's DynamicRF™ technology. Whether you want to add wireless to your office or light up an entire campus, Bluesocket Access Points are designed to meet your needs.

BlueSecure Access Point 1800

BlueSecure™ Access Point (BSAP) 1800 Product Overview

The Bluesocket BSAP-1800 802.11a/b/g/n Access Point is ideally suited for organizations moving toward true enterprise mobility. Designed for environments and applications that require high capacity, scale and speed, the BSAP-1800 provides predictable and reliable WLAN coverage, improving client performance and end-user experience.

Leveraging Bluesocket's technology leadership position with high throughput/coverage solutions, the BSAP-1800 platform is engineered to support the requirements of high-speed WLAN technologies and emerging bandwidth intensive and latency sensitive applications such as VoIP and VoIP over Wi-Fi, wireless video distribution and high performance data solutions.

The BSAP-1800 includes two 11n-based dual bands radios, a custom embedded antenna array with options for external antennas and GigE port to support 2 x 150Mbps streams delivering market leading coverage and throughput. BSAP-1800 is the only enterprise Access Point in the market with 2nd generation MIMO antenna technology and is able to support the 802.3af power standard and deliver full-feature performance with a single-port Power over Ethernet (PoE) solution.

The BSAP-1800 is able to support the 802.3af power standard and deliver full 3x3 MIMO performance with a single-port Power over Ethernet (PoE) solution, which means customers do not have to make the trade-offs between performance, security, and other critical wireless network functions forced by other solutions.

FEATURES & BENEFITS

- **802.11a/n and 802.11b/g/n with internal antenna; 802.11 a/b/g/n and 802.11 a/b/g/n/ with external antenna; configurable to support 2.4Ghz and 5Ghz**

- **Custom 2nd generation MIMO embedded antenna array**

- **Dual-band external antenna option for optimized for MIMO**

- **Full 3x3 MIMO performance powered by a standard PoE power source**

- **Simple "zero-config" deployment with configuration provided by BlueSecure Controller**

- **Bluesocket DynamicRF™ delivers automatic channel and power adjustments to avoid noise, interference, coverage holes and AP failures while providing load balancing and fast roaming**

- **Integrated RF IDS protects WLAN from rogue APs and wireless attackers**

- **Bluesocket Edge-to-Edge capabilities for local services QoS**

- **Enterprise-class & secure voice over WLAN**

  - Edge-to-edge on demand

  - Enterprise QoS (WMM/802.11e), Diffserv, Controller prioritization

  - Seamless layer-3 roaming

  - Stateful firewall guarantees secure voice applications and monitoring of dynamic VoIP protocols

BlueSecure Access Points work in conjunction with and extend the enterprise-class WLAN security and management capabilities provided by BlueSecure Controllers. BlueSecure Access Points automatically configure across any L2/L3 network using the Bluesocket Discovery Protocol, allowing easy upgrades when new features, capabilities or standards emerge, ensuring a longer life span without any physical intervention.

BlueSecure Access Point **1800 (BSAP-1800)** with internal antenna

Technical Specifications

Radios
- 802.11a/n and 802.11b/g/n with internal antenna; 802.11 a/b/g/n and 802.11 a/b/g/n/ with external antenna; configurable to support 2.4Ghz and 5Ghz
- Configurable sensor-mode scanned on individual bands with internal antennas or both bands with external antennas

Mobility Services
- Virtual AP Services
  - 8 virtual APs per radio; 64 clients per radio
  - Wireless client load balancing
  - Admission control
  - Secure fast roaming
  - Support for at least two RADIUS servers per virtual AP when configured for 802.1x
  - High Availability
  - Bluesocket Edge-to-Edge capability on a per SSID basis

- Voice Quality of Service
  - Wireless Multi-media QoS (WMM)
  - Seamless Layer-3 roaming
  - Stateful firewall guarantees secure voice applications
  - Multi-vendor interoperability/certification
    - Avaya
    - Vocera
    - Cisco
  - Single click voice configuration
    - Simple and automatic policy configuration
    - Advanced Quality of service and call admission control

Award Winning Security
- 802.1x port-based authentication
- Open System (WEP-64/128)
- Shared System (WEP-64/128)
- WPA-PSK (AES / TKIP)
- WPA (AES / TKIP)
- WPA2-PSK (AES / TKIP)
- WPA2 (AES / TKIP)
- WPA-PSK + WPA2-PSK Auto (AES / TKIP)
- WPA + WPA2 Auto (AES / TKIP)
- EAP-TTLS
- EAP-PEAP
- EAP-FAST
- EAP-TLS
- Proactive Key Caching
- Bluesocket Proprietary Pre-authentication
- All radios capable of scanning 802.11a/b/g/n for rogue devices

Antenna
- Custom 2nd generation MIMO embedded antenna array
- Dual-band external antenna option for optimized MIMO performance

Interfaces
- One auto-sensing 10BASE-T/100 BASE-TX/1000BaseT RJ-45 connector
- 6x RP-SMA interfaces for external antenna
- 802.3af Power over Ethernet

Power
- External AC power adapter
- 802.3af compliant Power over Ethernet (PoE) support

Environmental
- Operating Temperature 32° to 131° F (0° to 55° C)
- Humidity: Maximum 95% non-condensing

Mechanical
- Length: 9", Width: 9", Height: 2", Weight: under 2 pounds

Mounting
- Ceiling mount kit

Regulatory
- Electrical/Safety Compliance
  - UL 1950
  - CSA 22.2
  - IEC 60950
  - EN 60950
- Radio Approvals
  - FCC Part 15.247
  - RSS-210 (Canada)
  - EN 300.328 (Europe)
  - ARIB-STD 33 (Japan)
  - ARIB-STD 66 (Japan)
  - AS/NZS 4771 (Australia & New Zealand)
- EMI and Susceptibility (Class A)
  - FCC Part 15.107 and 15.109
  - ICES-003 (Canada)
  - VCCI (Japan)
  - EN 301.489-1 and -17 (Europe)
  - AS/NZS 3548

Certifications
- Wi-Fi certified

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