



## Bluesocket BlueSecure™ Access Point 1840

### 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 optimal performance 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 1840

### BlueSecure™ Access Point (BSAP-1840) Product Overview

The Bluesocket BSAP-1840 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-1840 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-1840 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-1840 includes two 11n-based radios, 6 R-SMA Connectors for external antennas and GigE port to support dual concurrent 40Mhz streams delivering market leading coverage and throughput. BSAP-1840 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-1840 is able to support the 802.3af power standard and deliver full 11n 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

- Full 11n 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 Point 1840 (BSAP-1840)

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.

The BSAP-1840 is available in 802.11a/b/g mode and can be upgraded to full 802.11n using an 802.11n license. This option gives customers the option to invest in 11n hardware today and 11n software when their budget permits.

## Technical Specifications

### Radios

- 802.11a/n and 802.11b/g/n
- Configurable sensor-mode scanned on individual bands

### Mobility Services

- Virtual AP Services
  - 8 virtual APs 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
- 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/WPA2-Personal
- WPA/WPA2-Enterprise
- EAP-TTLS
- EAP-PEAP
- EAP-FAST
- EAP-TLS
- EAP-SIM
- EAP-AKA
- Proactive Key Caching

### Certifications

- Wi-Fi 802.11n Certification

### Antenna

- 6 external R-SMA Connectors

### Interfaces

- One auto-sensing 10BASE-T/100BASE-TX/1000BaseT RJ-45 connector
- 802.3af Power over Ethernet

### Power (not included)

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

### Environmental

- Operating Temperature: 0° to 45° C
- Humidity: Maximum 95% non-condensing

### Mechanical

- Length: 7.8", Width: 7.8", Height: 1.8", Weight: under 2 pounds

### Mounting

- Ceiling mount kit
- Wall 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)
  - AS/NZS 4771 (Australia & New Zealand)
- EMI and Susceptibility (Class A)
  - FCC Part 15.107 and 15.109
  - ICES-003 (Canada)
  - EN 301.489-1 and -17 (Europe)
  - AS/NZS 3548

### Ordering Information

- Part Number
  - BSAP-1840-000-00-0
    - 802.11a + b/g with 11n upgrade available
  - BSAP-1840-11N-00-0
    - 802.11a/n + b/g/n
  - BSAP-1840-LIC-11N-0
    - Upgrade license to 802.11n for BSAP-1840-000-00-0



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