Bluesocket 1840

High-performance Dual Radio 802.11n Access Point with External Antenna

Product Features

- 802.11 a/b/g/n wireless access point with external antennas

- Full 11n performance powered by a standard PoE power source

- Simple "zero-config" deployment with configuration provided by Secure Controller

- 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

- Enterprise-class & secure voice over WLAN: Enterprise QoS (WMM/802.11e), Diffserv, Controller prioritisation, Seamless layer-3 roaming

ADTRAN's family of high-performance Access Points are the perfect fit for enterprises looking to deploy secure wireless networks. An integral component of the Virtual Wireless LAN (vWLAN) solution, this AP is completely plug-and-play requiring no manual configuration and deliver optimal performance with ADTRAN's DynamicRF technology. Whether you want to add wireless to your office or light up an entire campus, ADTRAN's Access Points are designed to meet your needs.

The Bluesocket 1840 is an 802.11a/b/g/n Access Point, ideally suited for organisations moving toward true enterprise mobility. Designed for environments and applications that require high capacity, scale and speed, the Bluesocket 1840 provides predictable and reliable WLAN coverage, improving client performance and end-user experience.

Hardware

The 1840 includes two 11n-based radios, 6 R-SMA Connectors for external antennas and a Gigabit Ethernet port to support dual concurrent 40 Mhz streams delivering market leading coverage and throughput. The Bluesocket 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 Bluesocket 1840 is also available in 802.11a/b/g mode and can be upgraded to full 802.11n using an optional 802.11n software license. This option gives customers the option to invest in 11n hardware today and 11n software when their budget permits.

Wireless VoIP and Video

Leveraging ADTRAN's technology leadership position with high throughput/coverage solutions, the Bluesocket 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.

Virtual Controller

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

Wi-Fi Certified

ADTRAN's Access Points have achieved Wi-Fi® certification from the Wi-Fi Alliance, guaranteeing interoperability with all client devices to provide a high performance, centrally managed wireless LAN solution for enterprises.

Zero Touch, Plug-and-play Deployment

ADTRAN's Access Points are completely plug-and-play, requiring no manual configuration.

Unmatched Security

Security features include local MAC authentication, 802.1x port-based authentication, Temporal Key Integrity Protocol (TKIP), Wireless Protected Access (WPA), and 802.11i (WPA v2) with multiple Extensible Authentication Protocol (EAP) methods for user authentication such as PEAP, FAST, TTLS, AKA, SIM and TLS.

DynamicRF

The Bluesocket 1800 constantly monitors the RF spectrum for RF noise, interference, coverage holes, and optimises power and channel settings to ensure optimal performance.

RF Intrusion Detection System (IDS)

Built-in RF IDS allows Access Points to find and contain Rogue APs, rogue clients, ad-hoc networks and a host of WLAN DoS and spoofing attacks that threaten the security of your network.

Smart Solutions for a Connected World.

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Product Specifications

Interfaces
- One auto-sensing 10BASE-T/100 BASE-TX/1000BaseT RJ-45 connector
- Rs232 Console Port

Antenna
- 6 external R-SMA Connectors

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

Certifications
- Wi-Fi 802.11n Certification

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

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

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

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

Physical
- Dimensions: 4,6 cm H, 19,8 cm W, 19,8 cm D
- Weight: 0,9kg

Power (optional)
- External AC power adapter (PWR-12V)
- 802.3af compliant Power over Ethernet (PoE) support (POE-001)

Mounting
- Ceiling mount kit
- Wall mount kit

Agency Approvals
- 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)
  - NCC (Taiwan) and IDA (Singapore)
- 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

Warranty
- One-year (parts & labor)

Ordering Information

Equipment	Part #
Bluesocket 1840 (802.11a/b/g/n)	1700911F1
Bluesocket 1840 (802.11a/b/g)	1700912F1
802.11n Software Upgrade	1951905G1
12V External Power Supply	1700922F1
Suspended Ceiling Bracket	1700921F1
(3) 2.4Ghz & (3) 5Ghz Omni Antennas	1700939F1

TL9000

TL19.1270

ADTRAN is an ISO 9001, ISO 14001, and a TL 9000 certified supplier.

TL 9000
TELECOMMUNICATIONS
ISO 9001.2000
QUALITY
ISO 14001
ENVIRONMENT

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