



Bluesocket 1800 and 1840 Access Points

High-performance Dual Radio 802.11n Access Points

Product Features

- 802.11a/b/g/n wireless access points supporting MIMO antenna technology
- Dual radio 2.4 Ghz and 5 Ghz
- Embedded antenna array
- Full 2x3:2 MIMO performance powered by 802.3af Power over Ethernet (PoE)
- Supports auto discovery and plug-and-play, "zero-configuration" deployment
- Supports WMM/802.11e and QoS for Enterprise-class Voice over Wi-Fi®
- Automatic channel and power adjustments to optimize coverage and maximize performance
- Integrated wireless intrusion detection system to identify rogue access points and wireless attacks
- Supports stateful firewall for highest security at the edge



WINNER
CLEAR
CHOICE
TEST

NETWORKWORLD

The ADTRAN® Bluesocket® family of high-performance access points are the perfect fit for enterprises looking to deploy secure wireless networks. Bluesocket access points are completely plug-and-play requiring no manual configuration and deliver optimal performance with ADTRAN's DynamicRF™ radio resource management technology. Whether you want to add wireless to your office or deploy across an entire campus, ADTRAN's access points are designed to meet your needs.

The Bluesocket family of access points are ideally suited for organizations requiring true enterprise mobility. Designed for environments and applications that require high capacity, scale and speed, these access points provide predictable and reliable wireless coverage that improve client performance and the end-user experience.

Hardware

The Bluesocket access points include two 802.11n radios. With a Gigabit Ethernet port, these access points support 2 x 300 Mbps streams—delivering market leading coverage and throughput. The Bluesocket access points are fully functional with the power delivered by a single-port 802.3af PoE solution.

Wireless VoIP and Video

Leveraging ADTRAN's technology leadership, the Bluesocket access points are engineered to support the requirements of high-speed wireless technologies, emerging bandwidth intensive applications and latency sensitive services such as voice and video.

Choice of Controller Platforms

ADTRAN's Bluesocket access points operate with both the ADTRAN Bluesocket virtual Wireless LAN (vWLAN®) solution and the Bluesocket Secure Controller (BSC). ADTRAN's vWLAN virtualizes the centralized management and control functions of the wireless LAN onto software that resides on a hypervisor (such as VMware) or a virtual appliance. By removing 100 percent of the controller hardware, vWLAN eliminates the common complexities, scale limitations and substantial capital costs that are part and parcel of a hardware controller based WLAN. vWLAN offers unsurpassed scalability with centralized control and management of all access points regardless of their physical location.

Unmatched Security

The Bluesocket family of access points support local MAC authentication, 802.1x port-based authentication, Wireless Protected Access (WPA), and 802.11i (WPA2) with multiple Extensible Authentication Protocol (EAP) methods for user authentication such as PEAP, FAST, TTLS, AKA, SIM and TLS.

Antenna Options

To meet customers' specific requirements, ADTRAN offers internal and external antenna options. The Bluesocket 1800 access point features an internal, six antenna array for standard coverage. The Bluesocket 1840 access point features six, external, RP-SMA connectors for specialized antennas that are commonly used in the deployment of outdoor or directional antennas.



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Product Specifications

Interfaces

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

Antenna

- **Bluesocket 1800 AP:** Six internal MIMO antennas
- **Bluesocket 1840 AP:** Six external RP-SMA connectors for specialized antennas

Radios

- 802.11a/n and 802.11b/g/n
- Configurable for sensor-mode RF scanning
- A-MPDU and A-MSDU frame aggregation
- HT20 and HT40 high throughput

Certifications

- Wi-Fi 802.11n Certification

Mobility Services

- Eight SSIDs per radio
- Wireless client load balancing
- Admission control
- Secure fast roaming
- High Availability

Voice Quality of Service

- Wireless Multi-Media QoS
- Seamless Layer 2 and 3 roaming
- WMM Power Save (U-APSD)
- Single click voice configuration
 - Simple and automatic policy configuration
 - Advanced quality of service

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
- Opportunistic Key Caching (OKC)

Environment

- **Operating Temperature:** -22° to 131° F
(-30° to 55° C)
- **Humidity:** Maximum 95% noncondensing

Physical**Bluesocket 1800 AP:**

- **Dimensions:** 2.1" H, 7.8" W, 7.8" D
(5.4cm x 19.8cm x 19.8cm)
- **Weight:** 2lbs (0.9kg)

Bluesocket 1840 AP:

- **Dimensions:** 1.8"H, 7.8"W, 7.8"D
(4.6cm x 19.8cm x 19.8cm)
- **Weight:** 1.5 lbs. (0.8kg)

Power

- 100mW TX
- 802.3af compliant Power over Ethernet (PoE)
- External 12V DC power adapter (optional)

Mounting

- Desktop/wall/ceiling/t-bar mount kit included
- Plenum rated
- Flush mount suspended ceiling kit (optional)
- Anti-theft: Compatible with Kensington-style locks

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

Ordering Information

Equipment	Part #
Bluesocket 1800 Access Point: 802.11a/b/g/n, six internal MIMO antennas	1700910F1
Bluesocket 1840 Access Point: 802.11a/b/g/n, six external RP-SMA connectors	1700911F1
Access Point vWLAN Software License	1951901G1
Accessories and Software Options:	
12V External Power Supply	1700922F1
802.3af Compliant PoE Injector	1700920F1
2.4 Ghz and 5 Ghz Omni Antennas for the Bluesocket 1840	1700939F1
Suspended Ceiling Bracket	1700921F1
High Availability Access Point Software: Provides hitless failover to secondary control instance	1951904G1

Wired and 3rd Party Access Point Software: 1951910G1
Supports 32 users per access point from a
source other than a Bluesocket 1800/1840 AP