

Bluesocket 1920/1925

High-performance Dual Radio 802.11n Access Point

Product Features

- 802.11a/b/g/n wireless access points supporting MIMO antenna technology
- Dual radio 2.4 GHz and 5 GHz
- Full 2x2:2 MIMO performance
- Powered by 802.3af Power over Ethernet (PoE) or 802.3at (PoE+)
- Mesh Networking
- User configurable maximum-associated clients per radio
- 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
- Integrated stateful firewall for highest security at the edge
- Provides greater range through beamforming



The ADTRAN® Bluesocket® family of high-performance Access Points (APs) is the perfect fit for educational institutions, enterprises, and service providers who are looking to deploy secure wireless networks. Bluesocket APs are completely plug-and-play requiring no manual configuration and deliver optimal performance. Whether you want to add wireless to your office or deploy across an entire campus, the Bluesocket APs are designed to meet your needs.

Cost-Effective, High-Performance Solution

The Bluesocket 1920 and 1925 APs offer enterprise-grade performance, with two transmit and two receive streams providing data rates up to 300 Mbps per radio for a total of 600 Mbps per AP.

The Bluesocket 1920 and 1925 APs come in a revolutionary, smoke detector style, cost-effective package that is ideal for educational institutions, small and medium enterprises (SMEs), and large enterprises who are on a tight budget but cannot compromise on performance. The APs offer higher receive sensitivity on both the 2.4 GHz and 5 GHz radios to compensate for Bring Your Own Device (BYOD) type handheld devices such as smartphones and tablets that have a fraction of the transmit power of traditional laptops. This results in more reliable wireless coverage for an improved end-user experience.

The Bluesocket 1920 AP includes four MIMO internal antennas with up to 4dBi peak gain, and the Bluesocket 1925 AP includes four RP-SMA connectors for external antennas. The Bluesocket 1920 and 1925 APs are fully functional with the power delivered by a single-port 802.3af PoE solution.

High-Density Wi-Fi

For high-density Wi-Fi deployments, the Bluesocket 1900 APs do not include a limit on the number of clients (mobile devices) per radio. Instead, users can configure the maximum number of associated-clients per radio, based on application requirements, to ensure a better user experience.

Cloud-Based Control and Management

The Bluesocket APs operate in conjunction with the ADTRAN Bluesocket virtual Wireless LAN (vWLAN), the industry's first cloud-based control and management software. By removing 100 percent

of the controller hardware, Bluesocket vWLAN® eliminates scale limitations, and enables centralized control and management of APs across multiple buildings, the corporate campus or across any geographic location. Cloud control also provides the ability to trouble-shoot APs without physically traveling to each location. Bluesocket vWLAN can be deployed on a no cost vWLAN Virtual Appliance (VMware®) or a low cost vWLAN Appliance (hardware). In addition, ADTRAN offers ProCloud Wi-Fi, a cloud-hosted and fully managed wireless LAN offering.

Unmatched Security at the Edge

The Bluesocket family of APs includes a built-in stateful firewall that enforces security policies at the edge to turn away malicious traffic before it hits the LAN. In addition, with Wireless Intrusion Detection System (W-IDS) as a standard feature, comprehensive user authentication options, support for many encryption protocols, combined with Bluesocket vWLAN's role-based authentication, ensures a secure wireless environment.

Smart Bandwidth Management

Leveraging ADTRAN's technology leadership, the Bluesocket APs offer many smart bandwidth management features including beamforming, granular bandwidth management, Wi-Fi Multimedia (WMM) enabled packet prioritization, and packet remarking, to provide the highest level of performance.

DynamicRF Management

The Bluesocket APs incorporate ADTRAN's DynamicRF™ radio resource management technology that ensures your entire wireless network is setup with the right balance of channels and power. DynamicRF reduces the effort to setup and maintain your wireless network—the system detects any non-optimal environmental conditions, and can automatically adjust RF parameters, or provide administrators with a recommended list of changes.

Zero Touch, Plug-and-Play Deployment

ADTRAN's Bluesocket APs are completely plug-and-play and self-configuring, requiring no manual configuration, ensuring faster deployment of your wireless network.



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Product Specifications

Interfaces

- One Auto-sensing, 10/100/1000Base-T, RJ-45 Connector

Antenna

- Bluesocket 1920:** Four Internal MIMO Antennas with up to 4dBi Peak GGain
- Bluesocket 1925:** Four External RP-SMA Connectors

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
- Max Transmit Power—100mW
- Beamforming

Certifications

- Wi-Fi 802.11a/b/g/n Certification

Mobility Services

- Eight SSIDs Per Radio
- Wireless Client Load Balancing
- Secure Fast Roaming
- High Availability
- Opportunistic Key Caching (OKC)
- Mesh Networking

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

Environment

- Operating:** 32° F to 113° F (0° C to 45° C)
- Storage:** -40° F to 158° F (-40° C to 70° C)
- Humidity:** 5% to 90% Typical

Physical

Bluesocket 1920 AP

- Dimensions:** DIA 6.3 in. (160 mm), H 1.5 in. (35 mm)
- Weight:** .44 lbs (0.2 kg)

Bluesocket 1925 AP

- Dimensions:** DIA 6.3 in. (160 mm), H 1.5 in. (35 mm)
- Weight:** .44 lbs (0.2 kg)

Power

- 802.3af Or 802.3at Compliant PoE
- External 12V DC Power Adapter (optional)

Mounting

- Wall/Ceiling/T-bar Mount Kit Included
- Plenum Rated
- 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

- Limited Lifetime Warranty

Ordering Information

| Equipment | Part No. |
|--|----------------------|
| Bluesocket Access Points (BSAPs) | |
| BSAP 1920 Access Point: 802.11a/b/g/n; 2x2:2 with Four Internal MIMO Antennas | 1700954L1 |
| BSAP 1925 Access Point: 802.11a/b/g/n; 2x2:2 with Four External RP-SMA Connectors | 1700955F1 |
| vWLAN Management and Control | |
| vWLAN Virtual Appliance (VMware) www.adtran.com/downloadvwan | DOWNLOAD ONLY |
| vWLAN Appliance (Hardware) | 1700900F1 |
| Software License | |
| Access Point vWLAN Software License (with built-in High Availability) | 1951901G1 |
| Access Point Unified User Access (Wired and Third-party AP Support) Software License (Optional) | 1951910G1 |
| Accessories | |
| 802.3af Compliant PoE Injector for BSAP-1920/1925/1930/1935 | 1700926F1 |
| AC/DC Power Adapter for the BSAP-1920/1925 | 1700928F1 |
| Antenna Bundle for BSAP 1925 (Set of Two 2.4 GHz and Two 5 GHz Omni-directional Antennas) | 1700932F1 |