Bluesocket 1940

High-performance Outdoor 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
- 6 N-type Connectors
- Full 3x3:3 MIMO Performance
- Powered by 802.3at Power over Ethernet (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 APs 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.

High-Performance

The Bluesocket 1940 outdoor APs include three transmit and three receive streams providing data rates up to 450 Mbps per radio for a total of 900 Mbps per AP.

With a weather resistant, industrial-grade enclosure, the Bluesocket 1940 APs provide the highest performance, extended range wireless coverage in the most harsh outdoor environments. The Bluesocket 1940 APs are ideal for warehouses, outdoor sports arenas, outdoor malls, campuses, and Municipal Wi-Fi deployments. The Bluesocket 1940 Series APs support the newer generation of laptops with three-stream radio support, and offer higher receive sensitivity on both the 2.4 Ghz and 5 Ghz radios to compensate for Bring Your Own Device (BYOD) type mobile devices such as smartphones and tablets that have a fraction of the transmit power of traditional laptops.

The Bluesocket 1940 outdoor AP includes six N-type connectors for external antennas. It is fully functional with the power delivered by a single-port 802.3at PoE+ solution.

High-Density Wi-Fi

For high-density Wi-Fi deployments, the Bluesocket 1900 APs do not a 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 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), low-cost 1U appliance or on a desktop controller purpose-built for small businesses. 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.

WiFi CERTIFIED

ADTRAN®

bluesocket®

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Product Specifications

Interfaces
- One auto-sensing, 10/100/1000Base-T, RJ-45 connector

Antenna
- Six N-type external 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—400mW
- 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:** -40° F to 140° F (-40° C to 55° C)
- **Storage:** -58° F to 150° F (-40° C to 70° C)
- **Humidity:** 5% to 90% typical
- **Waterproof:**
  - ❏ IP67
  - ❏ Salt-spray resistant

Physical
- **Dimensions:** 9.6 in. x 7.8 in. x 1.9 in. (L x W x H) (245 mm x 200 mm x 75 mm)
- **Weight:** 3.2 lbs (1.45 kg)

Power
- 802.3at compliant Power over Ethernet

Agency Approvals
Electrical/Safety Compliance
- UL 1950
- CSA 22.2
- IEC 60950
- EN 60950

Radio Approvals
- FCC Part 15.247
- RSS-210 (Canada)
- ICES-003 (Canada)
- EN 300.328 (Europe)
- EN 300.893 (Europe)
- EN 301.489-1/-17 (Europe)
- AS/NZS 44268/C-Tick (Australia & New Zealand)

Warranty
- One-year

Ordering Information

Equipment	Part No.
Bluesocket Access Points (BSAPs)	
BSAP 1940 Outdoor Access Point: 802.11a/b/g/n, 3x3:3, with six external N-type connectors	**1700952F1**
vWLAN Management and Control	
vWLAN Virtual Appliance (VMware) www.adtran.com/downloadvwlan	**DOWNLOAD ONLY**
vWLAN 1U Appliance (Hardware)	**1700900F2**
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	
802.3at compliant PoE injector for BSAP 1940	**1700923F1**
Antenna Bundle for BSAP 1940 (set of three 2.4 GHz and three 5 GHz omni-directional antennas)	**1700930F1**