

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+)
- 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.



ADTRAN, Inc.
Attn: Enterprise Networks
901 Explorer Boulevard
Huntsville, AL 35806
P.O. Box 140000
Huntsville, AL 35814-4000

256 963-8000
256 963-8699 fax

General Information
800 9ADTRAN
info@adtran.com
www.adtran.com

Bluesocket Business Group
866-633-3358
vWLAN@adtran.com
www.adtran.com/bluesocket

Pre-Sales Technical Support
888 423-8726
application.engineer@adtran.com
www.adtran.com/presales

Post-Sales Technical Support
888 423-8726
support@adtran.com
www.adtran.com/support

Where to Buy
888 423-8726
channel.sales@adtran.com
www.adtran.com/where2buy

ProServicesSM
888 874-2237
proservices@adtran.com
www.adtran.com/proservices

Global Inquiries
256 963-8000
256 963-6300 fax
international@adtran.com

ADTRAN believes the information in this publication to be accurate as of publication date, and is not responsible for error. Specifications subject to change without notice. ADTRAN, Bluesocket and vWLAN are registered trademarks of ADTRAN, Inc. and its affiliates in various countries. All other trademarks mentioned in this document are the property of their respective owners.

ADTRAN warranty duration and entitlements vary by product and geography. For specific warranty information, visit www.adtran.com/warranty

ADTRAN products may be subject to U.S. export controls and other trade restrictions. Any export, re-export, or transfer of the products contrary to law is prohibited. For more information regarding ADTRAN's export license, please visit www.adtran.com/exportlicense



TL19.1270



THE QUALITY CONNECTION
FOR YOUR BUSINESS
AND THE ENVIRONMENT

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

61700954F1-8E August
Copyright © 2013 ADTRAN, Inc.
All rights reserved.

Bluesocket 1920/1925

High-performance Dual Radio
802.11n Access Point

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 gain
- 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)

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 104° F (0° C to 40° 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 Power over Ethernet
- 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 1920 AP: 802.11a/b/g/n, 2x2:2, four internal MIMO antennas	1700954F1
Bluesocket 1925 AP: 802.11a/b/g/n, 2x2:2, four external RP-SMA connectors	1700955F1
AP vWLAN Software License	1951901G1
Bundles	
802.3af Compliant PoE Injector	1700926F1
AC/DC Power Adapter	1700928F1
Ceiling Mount kits/accessories (included with AP purchase)	1700941F1
BSAP 1925 2.4 GHz and 5 GHz Antennas (Set of four)	1700932F1
Access Point High Availability Software License	1951904G1
Access Point Unified User Access (Wired and Third-Party AP Support) Software License	1951910G1

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+)
- 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 optimise coverage and maximise 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 centralised 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 prioritisation, 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.

**ADTRAN, Inc.**

International Department
U.S. Headquarters
901 Explorer Boulevard
Huntsville, Alabama 35806
www.adtran.com/global

+1 256 963 8000
+1 256 963 6300 fax

international@adtran.com
International Customer Service
+1 256 963 8716

Asia—Beijing, China
+86 10 8527 5011
sales.china@adtran.com

Asia—Hong Kong
+852 3187 7111
sales.asia@adtran.com

Asia—Singapore
+65 6232 2305
sales.asia@adtran.com

**Australia/New Zealand—
Melbourne, Australia**
+61 3 9658 0500
sales.australia@adtran.com

**Australia/New Zealand—
Sydney, Australia**
+61 2 8456 0101
+61 2 8456 0105
sales.australia@adtran.com

**Canada Headquarters—
Toronto, Ontario**
+1 877 923 8726
+1 905 625 2515
sales.canada@adtran.com

Canada—Montreal, Quebec
+1 877 923 8726
+1 514 940 2888
sales.canada@adtran.com

**Europe, Middle East and Africa
Headquarters—Munich Germany**
+49 89 411097 111
sales.europe@adtran.com

Germany
+49 89 411097 111
sales.germany@adtran.com

Central/East Europe
+49 89 411097 111
sales.cee@adtran.com

South Europe
+49 89 411097 111
sales.southeurope@adtran.com

West/North Europe
+44 1189 317080
sales.wne@adtran.com

Middle East and Africa
+49 89 411097 111
sales.mea@adtran.com

Mexico and Central America
+1 256 963 3321
+1 52 55 5280 0265 Mexico
sales.mexico@adtran.com

South America
+1 256 963 3185
sales.brazil@adtran.com
sales.latam@adtran.com



TL19.1270



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

I61700954F1-8E August
Copyright © 2013 ADTRAN, Inc.
All rights reserved.

Bluesocket 1920/1925

High-performance Dual Radio
802.11n Access Point

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 gain
- 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)

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:** 0° C to 40° C (32° F to 104° F)
- Storage:** -40° C to 70° C (-40° F to 158° F)
- Humidity:** 5% to 90% typical

Physical

Bluesocket 1920 AP

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

Bluesocket 1925 AP

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

Power

- 802.3af or 802.3at compliant Power over Ethernet
- 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 1920 AP: 802.11a/b/g/n, 2x2:2, four internal MIMO antennas	1700954F1
Bluesocket 1925 AP: 802.11a/b/g/n, 2x2:2, four external RP-SMA connectors	1700955F1
AP vWLAN Software License	1951901G1
Bundles	
802.3af Compliant PoE Injector	1700926F1
AC/DC Power Adapter	1700928F1
Ceiling Mount kits/accessories (included with AP purchase)	1700941F1
BSAP 1925 2.4 GHz and 5 GHz Antennas (Set of four)	1700932F1
Access Point High Availability Software License	1951904G1
Access Point Unified User Access (Wired and Third-Party AP Support) Software License	1951910G1

ADTRAN believes the information in this publication to be accurate as of publication date, and is not responsible for error. Specifications subject to change without notice. ADTRAN, Bluesocket and vWLAN are registered trademarks of ADTRAN, Inc. and its affiliates in various countries. All other trademarks mentioned in this document are the property of their respective owners.

ADTRAN warranty duration and entitlements vary by product and geography. For specific warranty information, visit www.adtran.com/warranty

ADTRAN products may be subject to U.S. export controls and other trade restrictions. Any export, re-export, or transfer of the products contrary to law is prohibited. For more information regarding ADTRAN's export license, please visit www.adtran.com/exportlicense