# Bluesocket 2135

## Premium, High Density, High Performance Dual Radio Outdoor 802.11ac Access Point

## Product Features

- 802.11a/b/g/n/ac wireless access points supporting MIMO antenna technology

- Dual radio 2.4 GHz and 5 GHz

- Full 3x3:3 MIMO performance

- Data rates up to 1.3 Gbps on 5 GHz radio and 450 Mbps on 2.4 GHz radio

- Built-in carrier class antenna and Ethernet surge protection

- Powered by 802.3at (PoE+)

- User configurable maximum-associated clients per radio

- Increased receive sensitivity to compensate for mobile devices with less transmit power

- Zero-touch AP deployment— APs automatically discover vWLAN, download firmware, and download configuration

- Supports WMM/802.11e and QoS for Enterprise-class Voice over Wi-Fi®

- DynamicRF Radio Resource Management Technology— automatically configures optimal radio settings to maximize performance

- Integrated wireless intrusion detection system to identify rogue access points and wireless attacks

- Supports stateful firewall for highest security at the edge

**ADTRAN's wireless portfolio includes a family of 802.11n and 802.11ac high-performance Access Points (APs) that are a perfect fit for enterprises of all sizes, including educational institutions, retail, hospitality, and healthcare providers who are looking to move their organizations to a pervasive mobility environment.** 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, Reliable Connectivity

The Bluesocket 2135 outdoor 802.11ac AP offers enterprise-grade performance with three transmit and three receive streams providing data rates up to 1.3 Gbps on the 5 GHz radio and 450 Mbps on the 2.4 GHz radio for a total of 1.75 Gbps. With a weather resistant, industrial-grade enclosure and built-in carrier class antenna and Ethernet surge protection, the BSAP 2135 APs provide the highest performance, extended range wireless coverage in the most harsh outdoor environments.

The Bluesocket 2135 APs provide provide high performance, reliable coverage in ultra-high density wireless environments with laptops, mobile phones and tablets. The BSAP 2135s 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 2135 APs include six N-type connectors for external antennas, and are fully functional with power delivered by a single port 802.3at (PoE+) solution.

### Flexible, Cloud-Managed Options

The Bluesocket APs operate in conjunction with ADTRAN's flexible portfolio of cloud-managed deployment options including public cloud, private cloud or partner cloud with the freedom to migrate among them.

ADTRAN's wireless solutions are built on virtual Wirelss LAN (vWLAN), the industry's premier cloud-managed wireless LAN. ADTRAN's vWLAN® is simple yet powerful: simple in that it is intuitive, easy to learn, setup and use, and powerful with unmatched visibility, security, reliability, scalability and performance. In addition, ADTRAN's ProServices℠ offers the most robust lifecycle professional services—from initial designs, to onsite surveys, to installations, all the way to end-user Help Desk.

### Deployments Made Simple—Auto Provision, Auto Configure, Auto Optimize

- **Zero-touch AP deployment:** APs automatically discover vWLAN in the cloud, download firmware and download configuration.

- **DynamicRF:** Radio Resource Management (RRM) technology maximizes performance, adapts to interference, and provides seamless L2/L3 mobility by automatically setting channel and TX power settings, discovering neighbors and load balancing.

### Unsurpassed Security, Reliability, Scalability and Performance

- **Context-aware Access Control** allows you to define security policies based on users, device type, ownership, location and schedules. Businesses can now support BYOD or allow guest access while ensuring highest levels of network security.

- **Built-in Wireless Intrusion Detection (W-IDS)** to detect and isolate rogue access points in the network.

- **Built-in High-Availability (HA)** with zero packet loss failover ensures a reliable, always-on network.

- **Elastic Scalability** allows the network to quickly scale without the constraints of legacy hardware controllers.

**Wi Fi® CERTIFIED**

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## Product Specifications

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

### Antenna
- Six N-type Connectors

### Radios
- 802.11a/n/ac and 802.11b/g/n
- Configurable for Sensor-mode RF Scanning
- DynamicRF (Radio Resource Management) for Automatic Channel, TX Power, and Neighbor Discovery
- Configurable Maximum Associated Clients per Radio
- Multicast/Broadcast to Unicast Conversion
- A-MPDU and A-MSDU Frame Aggregation
- HT20, HT40 (High Throughput) and VHT80 (Very High Throughput)
- Max Transmit Power—400mW

### Certifications
- Wi-Fi 802.11a/b/g/n/ac Certification

### Mobility Services
- Eight SSIDs per Radio
- Support for Apple Bonjour Based Services (Airprint, Airplay), Apple CNA, and Microsoft NCSI
- Wireless Client Load Balancing
- Secure Fast Roaming with Opportunistic Key Caching (OKC)
- Seamless Layer 2 and Layer 3 Roaming
- High Availability

### QOS for Voice, Data, and Video
- Smart Bandwidth Management (Incoming, Outgoing)
- WMM (802.11e)
- 802.1p or Differentiated Service Code Point (DSCP)
- WMM Power Save (U-APSD)

### 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

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## 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
- Built-in Carrier Class Antenna and Ethernet Surge Protection

## Physical

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

## Power

- 802.3at Compliant Power over Ethernet

## Mounting

- Wall/Pole/Ceiling Mount Kit Included

## 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)
- 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 Warranty

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## Ordering Information

### Choose Your Access Point

**Choose Your Access Point**

| Choose Your AP | Part No. |
|---|---|
| **Outdoor AP** | |
| **BSAP 2135:** 802.11a/b/g/n/ac, 3x3:3, External N-type Antenna Connectors | **1700962F1** |

### Choose Your Cloud

| Public Cloud – ProCloud | Part No. | Part No. |
|---|---|---|
| **ProCloud for Outdoor AP (BSAP 2135)** | **NBD** | **7x24x4** |
| One Year | 1100MSPH210112 | 1100MSPH310112 |
| Three Years | 1100MSPH210136 | 1100MSPH310136 |
| Five Years | 1100MSPH210160 | 1100MSPH310160 |

| Public Cloud – ProCloud Plus | Part No. | Part No. |
|---|---|---|
| **ProCloud Plus for Outdoor AP (BSAP 2135)** | **NBD** | **7x24x4** |
| One Year | 1100MSPM210112 | 1100MSPM310112 |
| Three Years | 1100MSPM210136 | 1100MSPM310136 |
| Five Years | 1100MSPM210160 | 1100MSPM310160 |

| Private Cloud | | Part No. |
|---|---|---|
| **vWLAN Virtual Appliance (VMware):** *www.adtran.com/downloadvwlan* | | **Download Only** |
| **vWLAN 1U Rackmount Appliance** (Hardware) | | **1700900F2** |
| **vWLAN Desktop Appliance** (Hardware) | | **1700918F1** |

### Licenses

| Software License | Part No. |
|---|---|
| **Licenses purchase waived while covered by ProCloud/ProCloud Plus** | |
| **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

| Power Supply and Antennas | Part No. |
|---|---|
| **802.3at compliant PoE+ injector** for BSAP 2135 | **1700923F1** |
| **Antenna Bundle** for BSAP 2135 | **1700930F1** |