



Bluesocket 6000 Series

6120

Dual Band Wi-Fi 6 Outdoor Access Point



Low TCO



Zero-Touch



Gigabit



Wi-Fi 6

Benefits

- Enterprise-class Wi-Fi 6 (802.11ax) Outdoor Access Point
- Full 2x2:2 SU and MU-MIMO Performance, Offering Data Rates up to 1.7 Gbps
- Bi-directional OFDMA Utilizes Air Resource for Access Points and Client Device Efficiency
- BSS Coloring Technology to Uniquely Distinguish Traffic for Higher Efficiency in Dense Deployments
- Fully Functional With 802.3at Power over Ethernet (PoE+)
- Dynamic RF for Automatic Channel, TX Power, and Neighbor Discovery
- Provides Class of Service (CoS) Levels for Prioritizing Multi-Users and Multiservices
- Deliver High-Resolution Content or Multiple IP Surveillance Over Wireless Transmission
- Stateful Firewall at the Edge and WPA3 Encryption for Added Security
- Extreme Weather Housing With IP67 Enclosure Rating
- Fully Compliant with Wi-Fi 6 Standards and Backwards Compatible with Wave2/ac/a/b/g/n Client Devices

Overview

The Bluesocket 6120 Access Point (AP) offers the latest Wi-Fi 6 technology. It is a perfect fit for enterprises of all sizes, including educational institutions that want to extend their Wi-Fi coverage outside or across an entire campus.

The Bluesocket 6120 offers enterprise-grade performance and reliable coverage in high-density wireless environments, like arenas, conference centers, shopping malls, and other high-traffic areas. It supports two transmit and receive streams providing data rates up to 1.7 Gbps (1.2 Gbps for 5GHz and 574 Mbps for 2.4GHz) per AP. In addition, the Bluesocket 6120 includes four SMA-type external antennas with up to 5dBi peak gain and is fully functional when powered by an 802.3at PoE+ solution.

Wi-Fi 6

The Bluesocket 6120 supports advanced Wi-Fi 6 features including:

- Multi-User MIMO (MU-MIMO) with beamforming allows the handling of more concurrent clients in parallel, therefore, boosting network capacity. Beamforming strengthens the overall Wi-Fi signal.
- Orthogonal Frequency-Division Multiple Access (OFDMA) allows a single transmission to be split by frequency within a channel, allowing greater scale, and efficiency to deliver varying traffic.
- Basic Service Set (BSS) Coloring is perfect for high-density applications. It “colorcodes” shared frequencies maximizing performance.
- Advanced 1024-Quadrature Amplitude Modulation (QAM) allows the Bluesocket 6120 to carry more packets at one time, delivering higher data rates.

- Target Wake Time (TWT) is perfect for IoT applications. It allows devices to determine how frequently they will wake up to send or receive data, therefore conserving battery life.

Unsurpassed Security

Context-Aware Access Control (with Layer 7 Device Fingerprinting) allows security policies to be defined based on users, device types, ownership, location, and schedule. As a result, businesses can separate guests from business-sensitive traffic, ensuring the highest levels of network security.

For added security, Wireless Intrusion Detection (WIDS) is used to detect and isolate rogue access points in the network, stopping network asset spoofing.

Cloud-based Administration

Adtran’s virtual Wireless LAN® (vWLAN®) is the industry’s premier wireless LAN cloud-management solution. vWLAN is simple yet powerful: simple in that it is intuitive, easy to learn, set-up and use, and powerful with unmatched visibility, security, reliability, scalability, and performance. Adtran also offers the most flexible deployment options, including public cloud (Adtran Datacenter) or private cloud (on-premises), with the freedom to migrate between them.

Product specifications

Interfaces

- 1 – 10/100/1000/2500Mbps Base-T RJ-45

Access Point Type

- Outdoor, Dual Radios Concurrent
- SU-MIMO
 - Two (2) 2.4GHz Spatial Stream and Two (2) 5GHz Spatial Streams Totaling 1.2 Gbps
- MU-MIMO
 - Two (2) 2.4GHz Spatial Streams Up to .574 Gbps
 - Two (2) 5GHz Spatial Streams Up to 1.20 Gbps
- 5GHz/2.4GHz 802.11a/b/g/n/ac/ax
- 1x1 Selectable Scanning Radio Available

Radio Frequency

- 2.4GHz:
 - 2400MHz ~ 2482MHz
- 5GHz:
 - 5150MHz ~ 5250MHz
 - 5250MHz ~ 5350MHz
 - 5470MHz ~ 5725MHz
 - 5725MHz ~ 5850MHz

Transmit Power (Maximum Value)

- 2.4GHz: 23dBm
- 5GHz: 23dBm

Antenna

- 4 X SMA Type Interfaces
- 2.4GHz: Two (2) Detachable 5.0 dBi
- 5GHz: Two (2) Detachable 5.0 dBi
- Alternative Solution to be Compatible with SA2216 and SA5219 Sector Antennas

Status LEDs

- Power
- LAN
- 2.4GHz Radio
- 5GHz Radio

Security

- WPA3 Open/OWE (Opportunistic Wireless Encryption)
- WPA2/WPA3-Personal
- WPA2/WPA3-Enterprise (802.1X)
- 802.1X Port-Based Authentication
- WMM (802.11e)

- EAP-TTLS
- EAP-PEAP
- EAP-FAST
- EAP-TLS
- EAP-SIM
- EAP-AKA

Power

- 802.3at (PoE+) Compliant
- Power over Ethernet
- Proprietary 48V-54V
- Max Power: 15.9 Watts

Chassis

- Plastic Enclosure
- Dimensions: 7.48 in x 4.88 in x 1.85 in (19.0 cm x 12.4 cm x 4.7 cm) (H x W x D)
- Weight: 8 lbs. (3.62 Kg)

Mounting

- Wall Mount with Included Accessories
- Pole Mount with Included Accessories

Environment

- Operating Temperature: -4°F to 140°F (-20° to 60°C)
- Storage Temperature: -22°F to 176°F (-30°C to 80°C)
- Relative Humidity: Up to 90%, Non-Condensing
- Environment Protection Level: IP67
- ESD Protection
 - Contact: 4KV
 - Air: 8KV

Agency Approvals

- Electrical/Safety Compliance
 - UL 1950

Radio Approvals

- FCC Part 15 B
- FCC Part 15.247
- FCC Part E 15.407
- FCC Part 15.107
- FCC Part 15.109

Warranty

- 1-Year Warranty

Bluesocket 6000 Series

Channel	Data rate	Transmit Power (Aggregated, dBm)	Receive Sensitivity (Aggregated, dBm)
802.11b 2.4GHz	1 Mbps	23	-93
	11 Mbps	23	-85
802.11g 2.4GHz	6 Mbps	23	-88
	54 Mbps	21	-72
802.11a 5GHz	6 Mbps	25	-90
	54 Mbps	22	-72
802.11n HT20 2.4GHz	MCS 0 / 8	23	-88
	MCS 7 / 15	21	-69
802.11n HT40 2.4GHz	MCS 0 / 8	22	-85
	MCS 7 / 15	20	-66
-802.11n HT20 5GHz	MCS 0 / 8	25	-90
	MCS 7 / 15	22	-70
802.11n HT40 5GHz	MCS 0 / 8	25	-87
	MCS 7 / 15	22	-68
802.11ac VHT20 5GHz	MCS0	25	-90
	MCS8	21	-66
802.11ac VHT40 5GHz	MCS0	25	-87
	MCS9	20	-63
802.11ac VHT80 5GHz	MCS0	25	-83
	MCS9	20	-58
802.11ax HE20 2.4GHz	MCS0	23	-88
	MCS11	17	-60
802.11ax HE40 2.4GHz	MCS0	23	-85
	MCS11	18	-57
802.11ax HE20 5GHz	MCS0	25	-90
	MCS11	19	-60
802.11ax HE40 5GHz	MCS0	25	-87
	MCS11	19	-58
802.11ax HE80 5GHz	MCS0	25	-83
	MCS11	19	-55

6120

Order information

1. Choose Your Access Point		Part No.
Bluesocket 6120: Wi-Fi 6 (802.11ax), Outdoor 2x2:2		1700973F1
2. Choose Your Cloud		
Cloud-Managed: Elite Cloud	Next Business Day	Next Business Day w/ Onsite Tech
One Year	1100MSPH200112	
Three Year	1100MSPH200136	
Five Year	1100MSPH200160	
Cloud-Managed: Elite Cloud Plus		
One Year	1100MSPM200112	1100MSPM400112
Three Year	1100MSPM200136	1100MSPM400136
Five Year	1100MSPM200160	1100MSPM400160
Private Cloud		
FREE Instance of vWLAN for Your VMware (\$1995 value)	Download today adtran.com/downloadVWLAN	



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