

# ExtremeWireless™ WiNG 6562 Outdoor Access Point

Dual-Radio 802.11a/b/g/n Mesh Wireless Access Point

## BENEFITS

### IDEAL APPLICATIONS

- Hospitality
- Transportation and Logistics
- Retail Outdoor Spaces
- Distribution Centers
- Service Providers and Hotspot Deployments

### FULL 802.11N PERFORMANCE WITH STANDARD 802.3AT

- Simplifies and reduces total cost of installation using standard Power-over-Ethernet (PoE)

### MOBILITY

- Supports fast secure roaming

### SECURITY

- This unique multi-purpose device can execute and enforce the IDS/IPS security policies configured in the ExtremeWireless switch, and can also be utilized as a 24x7 dedicated sensor for Wireless IPS with Extreme AirDefense Services Platform

### MESH NETWORKING

- MeshConnex™ allows wireless extension of existing wired or wireless networks in remote or outdoor locations
- Eliminates running expensive cables to every AP outdoors



## Product Overview

Designed for extending Wi-Fi coverage to outdoor areas, the ExtremeWireless WiNG AP 6562 provides a cost-effective means of supporting the most demanding wireless applications and a large number of wireless devices. Ideal for distribution centers, hospitality, retail, and education campuses, the AP 6562 can handle the increasing number of Wi-Fi enabled devices and bandwidth-heavy applications connecting to your wireless network.

The AP 6562 access point is designed to help lower the cost of deploying and operating a secure, reliable, and targeted outdoor wireless network, all powered by the ExtremeWireless WiNG 5 architecture. Choose from two models: an integrated antenna model for fast wall mounting or an external antenna model for pole mounting and remote wireless backhaul.

The access point features dual 802.11n 2x2 radios with superior receive and transmit performance, a console port for configuration, and a GiGE LAN/WAN PoE-enabled port for local or remote network connectivity. With its ExtremeWireless WiNG 5 intelligence, this access point seamlessly extends your network to the outdoors with higher throughput along with direct forwarding, security, QoS services and site survivability.

## INTELLIGENT MESH NETWORKING

Extend your wireless network coverage to areas where Ethernet cabling is cost-prohibitive or otherwise impractical, the AP 6562 can operate wirelessly, connecting to other access points for data backhaul, in a mesh topology. The AP 6562 provides robust data connections throughout the network by leveraging Extreme's MeshConnex™. MeshConnex provides efficient routing, low latency, low routing overhead, high-speed handoffs and proven scalability. The AP 6562 delivers superior performance in hotels and resorts covering pool areas, in retail environments covering parking lots, outdoor yards in distribution centers, and education campus outdoor areas.

## BENEFITS (CONT.)

### OUTDOOR IP67 RATED, POLYMERIC CORROSION RESISTANT ENCLOSURE

- Designed to withstand wind, rain, and extreme temperature

### LESS IS MORE

- ExtremeWireless WiNG 5 WLAN solutions offer all the benefits of 11n—and then some. Our distributed architecture extends QoS, security, and mobility services to the APs so you get better direct routing and network resilience. That means no bottleneck at the wireless controller, no latency issues for voice applications, and no jitter in your streaming video. And with our broad selection of access points and flexible network configurations, you get the network you need with less hardware to buy. Let us show you the less complicated, less expensive way to more capacity, more agility, and more satisfied users

## HIGH PERFORMANCE DUAL-RADIO DESIGN

The AP 6562 is an independent, dual-radio access point designed to lower the cost of deploying and operating a secure, reliable 802.11n wireless LAN outdoor. The AP 6562 features dual MIMO radios with superior receive and transmit sensitivity. One radio can be used for client access while the second radio is used for simultaneous client access on a different frequency band or as a dedicated sensor for security and troubleshooting. The AP 6562 is a site-survivable wireless access point that does not require a controller and can act as a virtual controller coordinating the activities of 24 neighboring access points.

## GAP-FREE SECURITY

The AP 6562 provides enterprise-class security with layer 2-7 stateful packet filtering firewall, AAA RADIUS services, Wireless IPS-lite, VPN gateway, and location-based access control. The security capability of the AP 6562 is further enhanced when deployed in combination with premise- or cloud-based versions of the Extreme AirDefense Services Platform, which increase the security and resiliency of AP 6562 networks with an array of advanced security and network assurance features including Spectrum Analysis, Wireless IPS, Live RF, Advanced Forensics, and AP Testing to proactively identify and mitigate network disruptions.

## IMPROVE YOUR GUEST EXPERIENCE

Deploying a simple outdoor extension to the indoor wireless network comes naturally with AP 6562, allowing hospitality customers the ability to reach outdoors with applications targeted toward guest experience and concierge, expedited check-in and valet, or revenue generation in pool and guest access areas.

## FAST AND EASY ZERO-TOUCH DEPLOYMENT

The AP 6562 requires no configuration or manual firmware maintenance. The ExtremeWireless WiNG controller discovers access points on the network and automatically downloads all configuration parameters and firmware, greatly reducing installation, maintenance and troubleshooting costs for Layer 2 and Layer 3 deployments. With internal and external antenna SKU options, the compact and aesthetic design provides more choices for mounting locations.

For more information on how the AP 6562 can benefit your business, please visit: [wing.extremenetworks.com](http://wing.extremenetworks.com).

# Specifications

PRODUCT FEATURES	AP 6562i/e
<b>PHYSICAL CHARACTERISTICS</b>	
Dimensions	AP 6562 (INTERNAL ANTENNA) 9.1" W x 9.8" H x 2.6" D AP 6562 (EXTERNAL ANTENNA) 9.1" W x 9.8" H x 2.6" D
Weight	AP 6562 (INTERNAL ANTENNA) 2.9 lbs AP 6562 (EXTERNAL ANTENNA) 2.9 lbs
Part Number	AP 6562 (INTERNAL ANTENNA) AP-6562-66030 (-US, -WR, -EU) AP 6562 (EXTERNAL ANTENNA) AP-6562-66040 (-US, -WR, -EU)
Mounting Configurations	Adaptable mounting kit for wall and pole deployments (KT-147407-01) <i>With optional extension arm accessory (KT-150173-01)</i>
<b>RADIO CHARACTERISTICS</b>	
Operating Channels	<b>Radio 1:</b> 2.4GHz: Chan 1-13 (2412-2472 MHz), Chan 14 (2484 MHz) Japan only <b>Radio 2:</b> 2.4GHz: Chan 1-13 (2412-2472 MHz), Chan 14 (2484 MHz) Japan only <b>5GHz:</b> All channels from 5200 MHz to 5825 MHz <i>Actual operating frequencies depend on national regulatory limits</i>
Maximum Available Transmit Power	<b>2.4GHz:</b> 21dBm Per Chain <b>5GHz:</b> 20dBm Per Chain
Transmit Power Adjustment	1dB Increment
Antenna Configuration	1x1, 1x2, 2x2
Operating Bands	2412 to 2472 MHz and 2484 MHz, 5180 to 5825 MHz
<b>MAXIMUM RADIO TRANSMIT POWER</b>	
Single Antenna Transmit Power	+21 dBm (2400MHZ BAND) +20 dBm (5200MHZ BAND)
Dual Antenna Composite Transmit Power	+24 dBm (2400MHZ BAND) +23 dBm (5200MHZ BAND)
<b>INTERNAL ANTENNA INFORMATION</b>	
Internal Antenna Description	VALUES
Radio 1: 2.4GHz Band	7.0 dBi
Radio 2: 2.4GHz Band	7.0 dBi
Radio 2: 5.0GHz Band	8.0 dBi
<b>WIRELESS DATA COMMUNICATIONS AND NETWORKING</b>	
Data Rates Supported	<b>802.11b/g:</b> 1,2,5,5.5,11,6,9,12,18,24,36,48, and 54Mbps <b>802.11a:</b> 6,9,12,18,24,36,48, and 54Mbps <b>802.11n:</b> MCS 0-15 up to 300Mbps
Network Standard	802.11a, 802.11b, 802.11g, 802.11n
Wireless Medium	Direct Sequence Spread Spectrum (DSSS) and Orthogonal Frequency Division Multiplexing (OFDM), and Spatial Multiplexing (MIMO)
VLANs/WLANs Supported	VLANs and WLANs Are Controller-Dependent
Uplink	Auto-Sensing 10/100/1000Base-T Ethernet

PRODUCT FEATURES	AP 6562i/e
<b>USER ENVIRONMENT</b>	
Operating Temperature	-30 to +60°C
Storage Temperature	-40 to 85°C
Operating Humidity	5 to 95% RH, Non-Condensing
Operating Altitude	8,000 ft
Storage Altitude	30,000 ft
Electrostatic Discharge	EN61000-4-2, Air +/-15kV, Contact +/-8kV
Enclosure	Outdoor IP67 Rated, Polymeric Corrosion Resistant Enclosure ASTM B117 Salt, Fog, and Rust Resistance
Operational Shock	IEC60721-3-4, Class 4M3, MIL STD 810F
Operational Vibration	IEC60721-3-4, Class 4M3
<b>POWER SPECIFICATIONS</b>	
Operating Voltage	36-57 VDC
Power in (PoE)	802.3at
<b>OPTIONAL ACCESSORIES</b>	
Mounting Kit, Extension Arm for Mounting Kit, IP66 Outdoor Rated 802.3AT Power Injector, Mounting Kit for Outdoor IP 66 802.3AT Power Injector, External Antenna Options	
<b>REGULATORY</b>	
Product Safety Certifications	UL 60950, cUL, EU EN 60950, TUV, and UL 2043 (External Antenna)
Radio Approvals	FCC (USA), Industry Canada, CE (Europe), and TELEC Pending (Japan)
<b>WARRANTY</b>	
One (1) Year on AP 6562 Hardware (Accessories Not Included), 30 Days on Accessories, 90 Days on Software	

## Conducted Receiver Sensitivity (Antenna Element Not Included)

(TYPICAL) AT ANTENNA HOUSING CONNECTOR

RATE/MCS (2400MHZ BAND)	MODE (2400MHZ BAND)	SENSITIVITY (DBM) (2400MHZ BAND)	RATE/MCS (5200MHZ BAND)	MODE (5200MHZ BAND)	SENSITIVITY (DBM) (5200MHZ BAND)
1	Legacy	-94	6	Legacy	-92
2	Legacy	-93	9	Legacy	-92
5.5	Legacy	-93	12	Legacy	-92
11	Legacy	-89	18	Legacy	-90
6	Legacy	-91	24	Legacy	-87
9	Legacy	-91	36	Legacy	-83
12	Legacy	-91	48	Legacy	-80
18	Legacy	-89	54	Legacy	-83
24	Legacy	-87	MCS0	HT20	-92
36	Legacy	-84	MCS1	HT20	-92
48	Legacy	-78	MCS2	HT20	-90
54	Legacy	-76	MCS3	HT20	-85
MCS0	HT20	-91	MCS4	HT20	-82
MCS1	HT20	-91	MCS5	HT20	-78
MCS2	HT20	-89	MCS6	HT20	-76
MCS3	HT20	-85	MCS7	HT20	-75
MCS4	HT20	-82	MCS8	HT20	-91
MCS5	HT20	-78	MCS9	HT20	-88
MCS6	HT20	-76	MCS10	HT20	-86
MCS7	HT20	-74	MCS11	HT20	-82
MCS8	HT20	-91	MCS12	HT20	-79
MCS9	HT20	-88	MCS13	HT20	-74
MCS10	HT20	-86	MCS14	HT20	-72

RATE/MCS (2400MHZ BAND)	MODE (2400MHZ BAND)	SENSITIVITY (DBM) (2400MHZ BAND)	RATE/MCS (5200MHZ BAND)	MODE (5200MHZ BAND)	SENSITIVITY (DBM) (5200MHZ BAND)
MCS11	HT20	-83	MCS15	HT20	-71
MCS12	HT20	-79	MCS0	HT40	-90
MCS13	HT20	-74	MCS1	HT40	-89
MCS14	HT20	-73	MCS2	HT40	-87
MCS15	HT20	-71	MCS3	HT40	-82
MCS0	HT40	-88	MCS4	HT40	-79
MCS1	HT40	-87	MCS5	HT40	-75
MCS2	HT40	-85	MCS6	HT40	-73
MCS3	HT40	-82	MCS7	HT40	-72
MCS4	HT40	-78	MCS8	HT40	-88
MCS5	HT40	-75	MCS9	HT40	-85
MCS6	HT40	-73	MCS10	HT40	-83
MCS7	HT40	-70	MCS11	HT40	-79
MCS8	HT40	-87	MCS12	HT40	-76
MCS9	HT40	-84	MCS13	HT40	-71
MCS10	HT40	-83	MCS14	HT40	-70
MCS11	HT40	-79	MCS15	HT40	-68
MCS12	HT40	-75	-	-	-
MCS13	HT40	-71	-	-	-
MCS14	HT40	-69	-	-	-
MCS15	HT40	-67	-	-	-

## Warranty

As a customer-centric company, Extreme Networks is committed to providing quality products and solutions. In the event that one of our products fails due to a defect, we have developed a comprehensive warranty that protects you and provides a simple way to get your products repaired or media replaced as soon as possible.

For full warranty terms and conditions please go to: [support.extremenetworks.com](http://support.extremenetworks.com)

## Service and Support

Extreme Networks provides comprehensive service offerings that range from Professional Services to design, deploy, and optimize customer networks, with customized technical training, to service and support tailored to individual customer needs.

Please contact your Extreme Networks account executive for more information about Extreme Networks Service and Support.



<http://www.extremenetworks.com/contact> / Phone +1-408-579-2800

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