**ZEBRA**

# SYMBOL AP 6562E

## OUTDOOR DUAL RADIO 802.11A/B/G/N MESH WIRELESS ACCESS POINT

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

### ENTERPRISE-GRADE WIRELESS FOR MIDSIZE BUSINESSES
WiNG Express brings the power of enterprise award-winning WiNG 5 architecture to midsize businesses. With WiNG Express, smaller businesses now have access to the latest wireless technology and always-on capability trusted by large enterprises. In addition, the portfolio contains purpose built enterprise-grade products for midsize businesses that will allow customers to scale their network with their business.

### WiNG EXPRESS FAST PROVISIONING
WiNG Express products can be configured and deployed in about 5 minutes. After powering on the access point, user can connect to " WiNGExpress" SSID and go to www.zebra.com/wingexpress to configure the access point. Once an access point is configured, the user can enable the virtual controller feature and let the access point configure and manage additional access points by simply adding them to the network.

### WiNG EXPRESS USER INTERFACE
WiNG Express is Zebra's powerful enterprise-class WLAN operating system wrapped in an easy-to-use and easy-to understand graphical user interface that makes end-to-end deployment and management of WLAN network easy for midsize businesses. The user interface provides a concise menu with time tracked network and client information. As such, WiNG Express User Interface empowers smaller businesses with valuable information available to enterprise customers in a meaningful way, allowing your business to leverage wireless applications to drive business.

### INTELLIGENT MESH NETWORKING*
To enable the extension of wireless network coverage to areas where Ethernet cabling is cost-prohibitive or otherwise impractical, the AP 6562E can operate wirelessly, connecting to other access points for data backhaul, in a mesh topology. The AP 6562E provides robust data connections throughout the network by leveraging Zebra's MeshConnex ™. MeshConnex provides efficient routing, low latency, low routing overhead, high-speed handoffs and proven scalability. The AP 6562E 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.

### HIGH PERFORMANCE DUAL-RADIO DESIGN
The AP 6562E 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 6562E 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. The AP 6562E is a site survivable wireless access point that can act as a virtual controller coordinating the activities of 24 neighboring access points.

**WiNG EXPRESS**
For midsize businesses, the WiNG Express portfolio provides the ability to deploy an enterprise-grade network that is affordable and scalable with ease. Businesses with up to 25 access points get the power of centralized management — without the need to purchase and manage a controller. Deployment of WiNG Express Manager can help deploy a network with different WiNG Express Access Points and scale with more than 25 access points. For features supported by the WiNG Express portfolio, please see the WiNG Express portfolio brochure.

**IMPROVE YOUR GUEST EXPERIENCE**

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

**ARCHITECTURE FLEXIBILITY**

TAP 6562E includes a self optimizing algorithm of a virtual controller, which allows network services to scale securely without configuring additional access points.

Additionally, midsize businesses can scale their network with WiNG Express Manager, which can expand a network to include different WiNG Express access points and different sites supporting up to 1,024 access points.

*COMING SOON

For more information on how the AP 6562E can benefit your business, please visit us on the web at **www.zebra.com/wingexpress**or access our global contact directory at **www.zebra.com/contact**

## AP 6562E SPECIFICATIONS CHART

| PHYSICAL CHARACTERISTICS | AP 6562E (INTERNAL ANTENNA) | AP 6562E (EXTERNAL ANTENNA) |
|---|---|---|
| Dimensions: | 9.1" W x 9.8" H x 2.6" D | 9.1" W x 9.8" H x 2.6" D |
| Weight: | 2.9 lbs | 2.9 lbs |
| Part number: | AP-6562E-66030 (- US, -WR) | AP-6562E-66040 (- US, -WR) |
| Mounting configurations: | Adaptable mounting kit for wall & pole deployments (KT-147407-01) With optional extension arm accessory (KT-150173-01) | |
| **WIRELESS DATA COMMUNICATIONS AND NETWORKING** | | |
| Data rates supported: | 802.11b/g: 1,2,5.5,11,6,9,12,18,24,36,48, and 54Mbps 802.11a: 6,9,12,18,24,36,48, and 54Mbps, 802.11n: 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: | 4000 VLANS; VIDs 1 - 4095 | |
| Uplink: | Auto-sensing 10/100/1000Base-T Ethernet | |
| **RADIO CHARACTERISTICS** | | |
| Operating channels: | Radio 1: 2.4GHz: Chan 1-13 (2412-2472 MHz) Radio 2: 2.4GHz: Chan 1-13 (2412-2472 MHz) All channels from 5200 MHz to 5825 MHz Actual operating frequencies depend on national regulatory limits | |
| Maximum available transmit power: | 2.4GHz: 21dBm per chain, 5.0GHz: 20dBm per chain | |
| Transmit power Adjustment: | 1dB increment | |
| Antenna configuration: | 2x2 | |
| Operating bands: | 2412 to 2472 MHz and 2484 MHz, 5180 to 5825 MHz | |
| **USER ENVIRONMENT** | | |
| 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 | |

**POWER SPECIFICATIONS**

| | |
|---|---|
| Operating voltage: | 36-57 VDC |
| Power in (PoE): | 802.3at |

**MAXIMUM RADIO TRANSMIT POWER:**

| BAND | SINGLE ANTENNA TRANSMIT POWER | DUAL ANTENNA COMPOSITE TRANSMIT POWER |
|---|---|---|
| 2400MHZ | +21 dBm | +24 dBm |
| 5200MHZ | +20 dBm | +23 dBm |

**INTERNAL ANTENNA INFORMATION**

| 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 | 7.0 dBi |

**REGULATORY**

| | |
|---|---|
| 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 |

**OPTIONAL ACCESSORIES**

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

**WARRANTY**

One (1) year on AP 6562E hardware *accessories not included, (30) Day on Accessories, (90) Day on Software

| CONDUCTED RECEIVER SENSITIVITY (ANTENNA ELEMENT NOT INCLUDED) (typical) at antenna housing connector, 2400MHz band | | | CONDUCTED RECEIVER SENSITIVITY (ANTENNA ELEMENT NOT INCLUDED) (typical) at antenna housing connector, 5200MHz band | | |
|---|---|---|---|---|---|
| Rate/ MCS | Mode | Sensitivity (dBm) | Rate/MCS | Mode | Sensitivity (dBm) |
| 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 |
| 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 | | | |

**ZEBRA TECHNOLOGIES**