ZEBRA AP 6522E

DUAL RADIO 802.11A/B/G/N WIRELESS ACCESS POINT

Designed for small offices and retail locations, the AP 6522E can handle the increasing number of Wi-Fi enabled devices and bandwidth heavy applications connecting to your wireless network. The AP 6522E is a site survivable wireless access point that does not require a controller. With it's WiNG Express intelligence, this access point offers higher throughput along with direct forwarding, security, QoS services and site survivability. The AP 6522E can also serve as a virtual controller and coordinate the operation of up to 24 access points.

ENTERPRISE-GRADE WIRELESS FOR MIDSIZE BUSINESSES

WiNG Express brings the power of enterprise awardwinning 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 enterpriseclass 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.

MULTI-PURPOSE FOR MULTIPLE APPLICATIONS

The AP 6522E is a multipurpose access point designed to lower the cost of deploying and operating a secure, reliable 802.11n wireless LAN (WLAN) network. The access point features MIMO radios with superior receive and transmit sensitivity and a GiGE LAN/WAN POE enabled port for local or remote network connectivity. This easy-to-deploy solution delivers the speed and reliability to support the increase in WLAN traffic and supports the most demanding applications, including real-time video and voice.

AUTOMATIC REAL-TIME WIRELESS OPTIMIZATION

Common problems such as building attenuation, electronic interference or sub-optimal access point placement are minimalized as the SMART power and channel management optimizes power and channel selection so each user gets optimal high-quality access and mobility.

HIGH RELIABILITY

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WiNG EXPRESS

For midsize businesses, 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.

The AP 6522E is designed to optimize network availability through its central and pre-emptive intelligence which dynamically senses weak or failing signals, securely moves mobile users to alternate APs, and boosts signal power to automatically fill RF holes and ensure uninterrupted mobile user access.

VIRTUAL CONTROLLER

The AP 6522E allows network services to scale securely without configuring additional access points. When enabled, virtual controller automatically configures its peer access points on the local network and allows users to manage all access points from a single access point. Meaning customers can scale their wireless network up to 25 access points on the same network without the need to configure each access point individually.

For more information on how the AP 6522E 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 6522E SPECIFICATIONS CHART

PHYSICAL CHARACTERISTICS	AP 6522E (INTERNAL ANTENNA)	AP 6522E (EXTERNAL ANTENNA)
Dimensions:	7.5W x 9.5L x 1.1H	5.0W x 7.8L x 1.0H
Weight:	0.85 lbs	1.75 lbs
Part number:	AP-6522E-66030-US & -WR	AP-6522E-66040-US & -WR
Available mounting configurations:	Wall, Ceiling , Open Beam (with KT-135628-01)	Wall, Open Beam, Ceiling (with KT-135628-01)
LED indicators:	Yes	
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) 5GHz: 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:	0 to 40°C
Storage temperature:	-40 to 85°C
Operating humidity:	5 to 95% RH, non-condensing
Operating altitude:	8,000 ft @ 28°C
Storage humidity:	85% RH, non-condensing
Storage altitude:	30,000 ft @ 12°C
Electrostatic discharge:	15kV air and 8kV contact @ 50% RH

POWER SPECIFICATIONS

Operating voltage:	48Vdc (PoE in) / 12Vdc (Aux in)
Operating current:	0.25A (PoE) / 1.0A (Aux)
DC Power Consumption:	12W Max

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	3.9dBi
Radio 2: 2.4GHz band	4.4dBi
Radio 2: 5.0GHz band	7.5dBi

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

CONDUCTED RECEIVER SENSITIVITY (ANTENNA ELEMENT NOT INCLUDED)

(typical) at antenna housing connector, 2400MHz band

Rate/MCS	Mode	Sensitivity (dBm)
1	Legacy	-94
2	Legacy	-93
5.5	Legacy	-93
11	Legacy	-89
6	Legacy	-91

CONDUCTED RECEIVER SENSITIVITY (ANTENNA ELEMENT NOT INCLUDED)

(typical) at antenna housing connector, 5200MHz band

Rate/MCS	Mode	Sensitivity (dBm)
6	Legacy	-92
9	Legacy	-92
12	Legacy	-92
18	Legacy	-90
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	-80	MCS2	HT20	-90
54	Legacy	-78	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			

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