TW-522 802.11AC DUAL RADIO WALLPLATE

DELIVER COST-EFFECTIVE IN-ROOM HIGH-SPEED WI-FI SERVICE OVER YOUR EXISTING IN-ROOM TELEPHONE LINES — AND SUPPORT INNOVATIVE INDOOR LOCATIONING SOLUTIONS THAT TAKE SERVICE TO THE NEXT LEVEL

You need to provide in-room Wi-Fi access in your large campus environment — but the cost of installing a WLAN that can deliver dependable service in hotel rooms, dorm rooms or assisted living apartments has been prohibitive. Now, you can provide high-speed Wi-Fi services and more in the largest campus-style environments quickly, easily and cost-effectively with the TW-522. An integral component in the Zebra T5 system, the TW-522 delivers high performance Wi-Fi access over your existing in-room telephone line — no CAT5 cabling required. With 802.11ac, you get maximum speed and maximum bandwidth to support all of your users and all of their many mobile devices. And the TW-522 installs in minutes, right over the existing wallplate. The TW-522 — the easy way to deliver high-speed in-room Wi-Fi service in record time — with minimal costs.

Patented industry-leading technology

The TW-522 utilizes standard VDSL2 in conjunction with Zebra's own patented Line Power over VDSL to deliver superior in room Wi-Fi performance over your existing in-room telephone wire.

Bluetooth® Smart support for locationing

With built-in support for Bluetooth 4.0, the same access point that provides Wi-Fi access can also support Zebra's MPact Platform for Mobile Marketing. This industry leading platform allows you to utilize both your Wi-Fi and Bluetooth beacon networks to deliver new services that take the customer experience to a new level, providing increased customer satisfaction and a competitive differentiator.

Dual radios to meet increased capacity demands

Not only is there a dramatic increase in types of mobile devices, there is also an increase in the number of devices per user — a guest or tenant often has a smart phone and tablet or laptop computer. No matter how many devices you need to support, the TW-522 is ready for the job. Dual radios enable concurrent support for 2.4GHz and 5GHz mobile devices. And the 802.11ac radio increases the wireless network capacity and growth to support up to four times more mobile devices than typical legacy networks.

"Invisible" design blends into your environment

The TW-522 hides in plain sight in the room — designed to cover the existing phone jack, it blends right into the wall.

All the in-room connections you need

In addition to 802.11n Wi-Fi access, the TW-522 provides two 10/100MB managed Ethernet ports and a pass-through RJ-11 port for an in-room analog telephone.

Installation is a snap

Installation is fast and easy. All you need is a screwdriver — no special tools or in-room CAT5 wiring are required.

"Set it and forget it" technology

Once installed, the TW-522 is powered, adopted, provisioned and monitored by the TS-524 PowerBroadband Switch located in the central wiring closet. For integration into a large managed network with different types of access points, the TS-524 PowerBroadband Switch can be managed in the Network Operations Center through Zebra NX 7500, NX 9600, or VX 9000 controllers. In both scenarios, the RF environment is constantly monitored and optimized in real-time for best performance — no need to worry about on-going maintenance, updates or outages on a room-by-room basis.

Tamper-proof

The snap-on Wallplate access point is completely self contained, with a double-latch design and no accessible cables. Even the LEDs can be turned off remotely to avoid disturbing the tenant or hotel guest.

THE TW-522 — THE AFFORDABLE WAY TO DELIVER IN-ROOM HIGH-SPEED 802.11AC WI-FI AND LOCATIONING SERVICES. FOR MORE INFORMATION, PLEASE VISIT US ON THE WEB AT WWW.ZEBRA.COM/WLAN

Specifications Chart

PHYSICAL CHARACTERISTICS	
Dimensions	4.9 in. x 3.6 in. x 1.2 in. 124 mm x 92 mm x 32 mm
Weight	12 oz/0.34 kg
Power	Line powered or DC power: 12VDC, 8W
Wireless Interface	Dual radio; 802.11a/b/g/n/ac; 2.4Ghz or 5.2Ghz
LAN Ethernet port	2 x IEEE 802.3 10/100Mb auto-sensing via 8-pin header
Uplink UTP	1 x RJ11 UTP, VDSL2
LEDs	System power; UTP ports: multicolor status LEDs; Ethernet status: integrated green and amber for link status and link speed
Pass through	Filtered RJ11 port
Mounting	Wall mount bracket and RJ11 cable

RADIO SPECIFICATIONS	
Wireless Medium	DSSS, OFDM, MIMO
Network Standards	802.11a, 802.11b, 802.11g, 802.11n draft 2.0; 802.11ac; 802.11i, 802.11-2007
Data Rates	802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6,9,12,18,24,36,48, 54Mbps 802.11a: 6,9,12,18,24,36,48, 54Mbps 802.11n: MCS 0-15 up to 300Mbps 802.11ac: MCS 0-8 up to 867Mbps
Operating Frequencies	2.4GHz: 2412 -2472 MHz 5.2GHz: 5150 - 5850MHz Actual operating frequencies depend on national regulatory limits

RADIO SPECIFICATIONS (continued)	
Transmit Power settings	1dBm to 15dBm, in 1dB increments; actual Tx power dependant on national regulatory limits
Antenna Configuration	Two internal omni-directional, 1x2 or 2x2 MIMO operation 3dBi peak in 2.4 Ghz; 4dBi peak gain in 5.2 Ghz
QOS	Classification: Dynamic IP TOS/802.1P COS, Port-based; Buffer Management: WRED; Transmission Queues: Four queues with administrator defined WFQ, Rate Shaping, Strict Priority
VLANs	802.1 Q tagged VLANs, access or trunk
Management	Access: via TS-524 Switch for normal operation, HTTP access for site survey standalone operation

USER ENVIRONMENT	
Operating Temperature	32° F - 122° F/0° C - 40° C ambient temperature, 5% to 90% non-condensing
TW-5xx Compliance	FCC 15.247, 15.407 / EN300 328, EN 301 893 UL EU EN 60950-1 2nd Ed., ANZ C-Tick FCC Part 15 Subpart A, EN 55022: 2006 + A1: 2007, ICES – 003 (Class A) EN 55024: 1998 + A1: 2001 + A2: 2003 EU RoHS Directive 2002/95/EC CE, IC, FCC

REGULATORY
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