



TW-511 802.11N SINGLE RADIO WALLPLATE

DELIVER COST-EFFECTIVE IN-ROOM HIGH-SPEED WI-FI SERVICE OVER YOUR EXISTING IN-ROOM TELEPHONE LINES

Campus-style environments share a common challenge. Whether you have guests in hotel rooms, tenants in assisted living facilities or students in campus dorm rooms, you need to provide reliable in-room Wi-Fi access for mobile phones, tablets and laptops, as well as Ethernet ports for computers, ‘smart’ TVs and more. Now, you can install it all in just minutes with the TW-511 Wallplate. This integral component of the Zebra T5 System installs right over the existing in-room wallplate, and provides high-speed Wi-Fi access over the existing in-room telephone line along with a pass-through port for the analog phone and multiple Ethernet ports. The result? You can leverage your existing technology investments to meet the new needs of today without costly and disruptive “rip-and-replace” solutions — saving time and money, while delivering a superior wireless experience.

Patented industry-leading technology

The TW-511 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.

All the in-room connections you need

In addition to 802.11n Wi-Fi access, the TW-511 provides two 10/100MB managed Ethernet ports and a pass-through RJ-11 port for an in-room analog telephone.

“Invisible” design blends into your environment

The TW-511 hides in plain sight in the room — designed to cover the existing phone jack, it blends right into the wall.

“Set it and forget it” technology

Once installed, the TW-511 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.

SPECIFICATION SHEET

TW-511 802.11N WALLPLATE

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.

Support for multiple services for more value

The TW-511 can do triple-duty for superior value. In addition to Wi-Fi access, Zebra's RadioShare (a Zebra AirDefense feature) allows the radio to also scan for rogue access points to protect your network — no need to purchase,

manage and deploy a separate sensing network. And support for Wi-Fi locationing enables the delivery of new location-based services to better serve your customers.

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-511 — THE AFFORDABLE WAY TO DELIVER HIGH-SPEED 802.11N WI-FI IN ROOM 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, 6W
Wireless Interface	Single radio; 802.11a/b/g/n; 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
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	
	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

