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MOTOROLA



TS-524 Switch and TW-5xx WallPlate

Installation Guide

Network Configuration (TS-524)

The following will enable all ports and configure one wireless LAN:

| Serial Console Connection | Default IP Address |
|-----------------------------------------------------------------------------------|--------------------|
| Speed: 19200 Data Bits: 8 Parity: None Stop Bit: 1 Flow Control: None | 192.168.1.3 |

Log in to the system using Telnet, SSH, HTTP, or Serial Console using the default username and password:

Username: **admin**
Password: **motorola**

Enter the following commands:

```
config
password admin <enter your new password>
country-code <xx = your country>
hostname <enter your hostname>
interface vlan1 ip-address 192.168.1.1/24
vlan Guest
exit
int ds11-24 no shutdown
int radio1-24.1
channel 6
power 18
vlan Guest
no shutdown
exit
```

Regulatory Information

This device is approved under Motorola Solutions, Inc. This guide applies to Model Numbers: TS-524, TW-510, and TW-511. All Motorola devices are designed to be compliant with rules and regulations in locations where they are sold and will be labeled as required.

Local language translations are available at the following website:

<http://www.motorolasolutions.com/support>

Any changes or modifications to Motorola Solutions equipment, not expressly approved by Motorola Solutions, could void the user's authority to operate the equipment. When Motorola Solutions devices are professionally installed, the Radio Frequency Output Power will not exceed the maximum allowable limit for the country of operation.

Antennas: Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could cause damage and may violate regulations.

Radio Modules

The **TW-511** contains an approved radio module. This module is identified below:

Motorola Solutions, Inc. 802.11 a/b/g/n WLAN, Type: TW-5

Wireless Device Country Approvals (TW-511 only)

Regulatory markings, subject to certification, are applied to the device signifying the radio(s) is/are approved for use in the following countries: United States, Canada, Japan, China, S. Korea, Australia, and Europe. Please refer to the *Declaration of Conformity (DoC)* for details of other country markings. This is available at <http://www.motorolasolutions.com/doc>.

Note: Europe includes: Austria, Belgium, Bulgaria, Czech Republic, Cyprus, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovak Republic, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

- This equipment should only be installed by qualified professional installers.
- Read all installation instructions and site survey reports, and verify correct equipment installation before installing this equipment.
- Remove jewelry and watches before installing this equipment.
- Verify proper wiring and grounding for each installation location.
- Verify there is adequate ventilation around the device, and that ambient temperatures meet equipment operation specifications (0° to 40° Celsius / 32° to 104° Fahrenheit).

Warnings

WARNING! Indicates a condition or procedure that could result in personal injury or equipment damage.

CAUTION Care is required. Disregarding a caution can result in data loss or equipment malfunction.

NOTE Tips, hints, or special requirements that you should take note of.

The following graphical alerts are used in this document to indicate notable situations:

Document Conventions

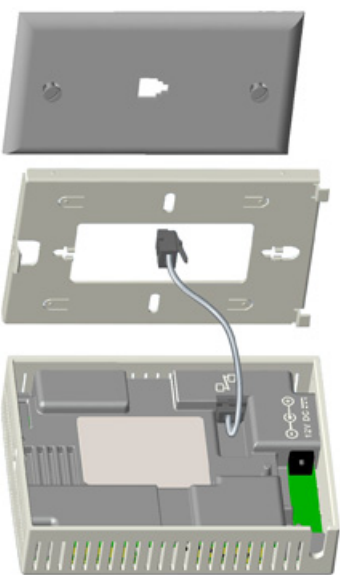
This installation guide applies to TS-524 (P/N TS-0524-WR), TW-511 (P/N TW-0511-60010-US, -EU, -WR), and TW-510 (P/N TW-0510-WR), with structured cabling.

Introduction

The Motorola TW-51x Series Wired/Wireless WallPlate is designed for multi-tenant buildings such as hotels, healthcare facilities, apartments, and dormitory housing. The TW-51x is designed to leverage the in-building telephone wiring to deploy Ethernet and wireless LAN networks without the effort and expense of re-wiring with structured cabling.

Installing the TW-51x WallPlate

1. Loosen the screws on the existing wall plate to create a gap of 6mm (1/4") in).
2. Attach the mounting adapter using the keyhole slots.



3. Tighten the screws until the mounting adapter is securely attached.



CAUTION Do not over tighten.

4. Connect the supplied 10cm cable between the TW-51x bottom mounted RJ11 jack and the existing RJ11 jack.
5. Hook the bottom tabs on the mounting adapter to the TW-51x. Rotate and snap the TW-51x onto the adapter.

Installing In-line Filters

The TW-5x Wallplate features a built-in *Plain Old Telephone Service* (POTS) and Line Power filter for the desk phone. Install an in-line filter on all other phone jacks that will have a phone connected.

The terminated filter has a clipped RJ11 connector. This is done to comply with EN60950 requirements. Use a small flat blade screwdriver to lift the tab if attempting to remove the filter.



If installing a filter on a bathroom phone, use the unterminated filter. Remove the bathroom wall plate and terminate the filter in the wall box using wire beans.



TS-524 and TW-5xx Specifications

| | |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Wireless Interface | Single radio; 802.11a/b/g/n; 2.4GHz or 5GHz |
| LAN Ethernet port | 2 x IEEE 802.3 10/100MB auto-sensing via RJ-45 |
| Uplink UTP | 1 x RJ11 UTP VDSL2 |
| Pass through phone port | Filtered RJ11 port |
| Medium | DSSS, OFDM, MIMO |
| Standards | 802.11a, 802.11b, 802.11g, 802.11n draft 2.0, 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 to 15 up to 300Mbps |
| Operating frequencies* | 2.4GHz: 2400 to 2483.5MHz 5GHz: 5150 to 5250MHz, 5725 to 5850MHz |
| Transmit power settings* | 1dBm to 20dBm, in 1dBm increments |
| Antenna configuration | Two internal omni-directional, 1x2 or 2x2 MIMO operation 3dBI peak @ 2.4GHz |
| VLANs | 802.1Q tagged VLANs, access or trunk |
| TS-524 management | Telnet, SSH, HTTPS, Serial Console |
| TS-524 uplink ports | 2 x IEEE 802.3 10/100/1000MB auto-sensing RJ-45 |
| TS-524 UTP ports | 1 x RJ21 for PBX connection, 1 x RJ21 for downstream VDSL2 |

* Operating frequencies and transmit power settings depend on national regulatory limits.

