



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.



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

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.

Installing In-line Filters

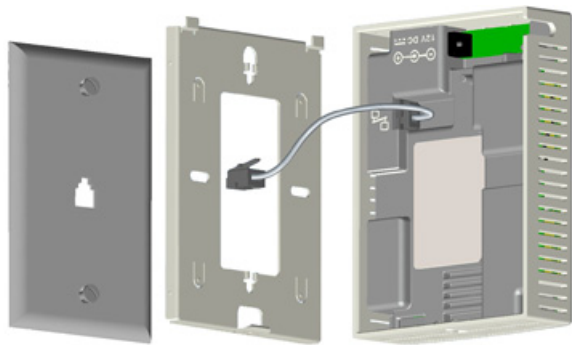
TS-524 and TW-5xx Specifications

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	802.1 Q 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.

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- Loosen the screws on the existing wall plate to create a gap of 6mm (1/4 in).
- Attach the mounting adapter using the keyhole slots.
- Tighten the screws until the mounting adapter is securely attached.



Installing the TW-51x WallPlate

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.

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).

Document Conventions

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

- NOTE** Tips, hints, or special requirements that you should take note of.
- CAUTION** Care is required. Disregarding a caution can result in data loss or equipment malfunction.
- WARNING!** Indicates a condition or procedure that could result in personal injury or equipment damage.

Warnings

- 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).

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config
  password admin <enter your new password>
  hostname <enter your hostname>
  interface vlan1 ip-address 192.168.1.1/24
  int ds11-24 no shutdown
  int radio1-24.1
  channel 6
  power 18
  wlan guest
  no shutdown
  exit
  
```

Enter the following commands:

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

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

Speed: 19200	Flow Control: None
Data Bits: 8	Stop Bit: 1
Parity: None	Party: None
Default IP Address	192.168.1.3

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

Network Configuration (TS-524)

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>.

Wireless Device Country Approvals (TW-511 only)

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

Radio Modules

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

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

Local language translations are available at the following website:

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

This device is approved under Motorola Solutions, Inc.

Regulatory Information

interface ds11-24 line-power write memory

To enable line power, enter the following commands into the CLI:

phones ff the filters are not installed first.

Line power should be enabled after the filters and TW-51x WallPlate have been installed. Line power is safe for use with telephony equipment but it will ring the

Enabling Line Power

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TS-524 Switch and TW-5xx WallPlate

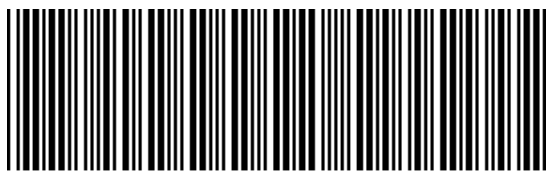
Installation Guide



MOTOROLA

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Select only the country in which you are using the device. Any other selection will make the operation of this device illegal. The US version of the Access Point will operate only if US country code is selected. The US version will be sold / used in the US protectorates: American Samoa, Guam, Northern Marianas, Puerto Rico, US Virgin Islands.

Country Selection

Operation of the device without regulatory approval is illegal.



Switzerland and the United Kingdom.

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

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