

**WESTERMO**  
**3520 Series**  
**Managed**  
**Routing Switch**



# Westermo 3520 Series Managed Routing Switch User Guide

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# WESTERMO

**Westermo 3520 Series Managed Routing Switch**



## General Information

### • Legal Information

- The contents of this document are provided “as is”. Except as required by applicable law, no warranties of any kind are made in relation to the accuracy and reliability or contents of this document, either expressed or implied, including but not limited to the implied warranties of merchantability and fitness for a particular purpose. Westermo reserves the right to revise this document or withdraw it at any time without prior notice. Under no circumstances shall Westermo be responsible for any loss of data or income or any special, incidental, and consequential or indirect damages howsoever caused. More information about Westermo can be found at [www.westermo.com](http://www.westermo.com).

### • About This Guide

- This guide is intended for installation engineers and users of the Westermo products. It includes information on safety and regulations, a product description, installation instructions and technical specifications.

### • Software Tools

- Related software tools are available at <https://www.westermo.com/support/product-support>.

### • License and Copyright for Included FLOSS

- This product includes software developed by third parties, including Free/Libre Open Source Software (FLOSS). The specific license terms and copyright associated with the software are included in each software package respectively. Please visit the product web page for more information. Upon request, the applicable source code will be provided. A nominal fee may be charged to cover shipping and media. Please direct any source code request to your normal sales or support channel.

### • WeOS

- This product runs WeOS (Westermo Operating System). Instructions for quick start, configuration and factory reset are found in the WeOS user documentation at [www.westermo.com](http://www.westermo.com).





### • Integrity Seal

- To ensure that the product package has not been opened, there is an integrity seal. If the seal is unexpectedly broken or missing contact your support channel for advice.

## Safety and Regulations

### Warning Levels

Warning signs are provided to prevent personal injuries and/or damages to the product. The following levels are used:

Level of warning	Description	Consequence personal injury	Consequence material damage
 <b>WARNING</b>	Indicates a potentially hazardous situation	Possible death or major injury	Major damage to the product
 <b>CAUTION</b>	Indicates a potentially hazardous situation	Minor or moderate injury	Moderate damage to the product
 <b>NOTICE</b>	Provides information in order to avoid misuse of the product, confusion or misunderstanding	No personal injury	Minor damage to the product
 <b>NOTE</b>	Used for highlighting general, but important information	No personal injury	Minor damage to the product

*Table 1. Warning levels*

### Safety Information

#### Before installation:

Read this manual completely and gather all information available on the product. Make sure it is fully understood. Check that your application does not exceed the safe operating specifications for the product.

### SAFETY DURING INSTALLATION

The product must be installed and operated by qualified service personnel and installed into an apparatus cabinet or similar, where access is restricted to service personnel only. Refer to the chapter Compliance Information to see

the required level of qualified service personnel according to safety standards. Before energising and connecting communication cables to the product, ensure a protective earthing conductor is first connected to the protective earthing terminal (only valid for metallic housings). Westermo recommends a cross-sectional area of at least 4 mm<sup>2</sup>. Note that this product can be connected to two different power sources. Upon removal of the product, disconnect the product from the power supply and all other communication ports before disconnecting the protective earthing conductor.

- **HAZARDOUS VOLTAGE**

- Do not open an energised product. Hazardous voltage may occur when connected to a power supply.

- **PROTECTIVE FUSE**

- The power supply wiring must be sufficiently fused. The fuse must be IEC 60127 certified and rated for T1.6 A and 250 V. It must be possible to disconnect manually from the power supply. Ensure compliance to national installation regulations. This product has no internal fuse and should be connected via an external fuse for protection.

- **REDUCE THE RISK OF FIRE**

- To reduce the risk of fire, use only telecommunication line cords with a cable diameter of AWG 26 or larger. Regarding power cable dimensions, see chapter Interface Specifications.

- **CABLE TEMPERATURE RATING FOR FIELD TERMINAL WIRES**

- There may be a requirement on the minimum temperature rating of the cable to be connected to the field wiring terminals, see chapter Interface Specifications.

- **ELECTROSTATIC DISCHARGE (ESD)**

- Prevent electrostatic discharge damage to internal electronic parts by discharging your body to a grounding point (e.g. use a wrist strap).

- **HOT SURFACE**

- Be aware that the surface of this product may become hot. When it is operated at high temperatures, the external surface may exceed Touch Temperature Limit according to the product's relevant electrical safety standard.

- **NOTE – MECHANICAL FORCE ON VENTILATION MEMBRANE**

- Do not cover or bring mechanical force to the ventilation membrane on the back of the product.

## **Care Recommendations**

Follow the care recommendations below to maintain full operation of the product and to fulfill the warranty obligations:

- Do not drop, knock or shake the product. Rough handling above the specification may cause damage to internal circuit boards.
- Use a dry or slightly water-damp cloth to clean the product. Do not use harsh chemicals, cleaning solvents or strong detergents.
- Do not paint the product. Paint can clog the product and prevent proper operation.

If the product is used in a manner not according to specification, the protection provided by the equipment may be impaired. If the product is not working properly, contact the place of purchase, the nearest Westermo distributor office or Westermo technical support.

## **Product Disposal**

This symbol means that the product shall not be treated as unsorted municipal waste when disposing of it. It needs to be handed over to an applicable collection point for recycling electrical and electronic equipment. Proper disposal of the product helps minimize hazardous substances and prevents potential negative impacts on both the environment and human health.



*Figure 1. WEEE symbol for treatment of product disposal*

## **Compliance Information**

## **Agency Approvals and Standards Compliance**

Type	Approval/Compliance
Climate	<ul style="list-style-type: none"> <li>• EN 50155 class OT4 / IEC 60571 class TX, Railway applications – Electronic equipment used on rolling stock</li> <li>• IEEE 1478 class 1, condition E4 (incl Salt Mist), Environmental conditions for transit rail car electronic equipment</li> </ul>
EMC	<ul style="list-style-type: none"> <li>• EN/IEC 61000-6-2, Immunity industrial environments</li> <li>• EN/IEC 61000-6-4, Emission industrial environments</li> <li>• EN 50121-4/IEC 62236-4, Railway signalling and telecommunications apparatus</li> <li>• EN 50121-3-2/IEC 62236-3-2 Railway applications – Rolling stock – apparatus</li> <li>• Tested and verified for Class S1, DB EMC Regulation 06, Commodity team Radio compatibility in VDB Rev 1.0 (Shunting Radio)</li> <li>• Tested and verified for FCC part 15b class A (CFR 47)</li> <li>• E-Mark, Road Vehicles, E1 10R-058942</li> </ul>
Mechanical (Shock and vibration)	<ul style="list-style-type: none"> <li>• EN 61373 category 1, class A and B</li> <li>• EN 60068-2-27 20 g, 11 ms and 100 g, 6 ms</li> </ul>
Insulation (Coordination and test)	<ul style="list-style-type: none"> <li>• EN 50124-1, Railway applications – Insulation coordination</li> <li>• EN 50155/IEC 60571, Railway applications – Electronic equipment used on rolling stock</li> </ul>
Fire protection	<ul style="list-style-type: none"> <li>• EN 45545-2, Fire protection on railway vehicles</li> <li>• NFPA 130, Fire protection for fixed guideway transit and passenger rail system</li> </ul>
Cybersecuritya.	<ul style="list-style-type: none"> <li>• IEC 62443-4-2 SL2, Security for industrial automation and control systems</li> </ul>
Software	<ul style="list-style-type: none"> <li>• EN 50657:2017 Software Onboard Rolling Stock (Basic Integrity)</li> </ul>
Safety	<ul style="list-style-type: none"> <li>• EN/IEC/UL 61010-1, -2-201, Safety requirements for electrical equipment for measurement, control, and laboratory use</li> </ul>

a.Certification ongoing

**Table 2.** Agency approvals and standards compliance

#### **EN/IEC/UL 61010-2-201 Notice**

This product has been tested and found compliant to EN/IEC/UL 61010-2-201, Safety requirements for electrical equipment for measurement, control, and laboratory use. In accordance with the definitions of the standard, this product shall be handled by skilled service personnel.

#### **FCC Part 15.105 Class A Notice**

This product has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15

of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the product is operated in a commercial environment. This product generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the user manual, may cause harmful interference to radio communications. Operation of this product in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at the user’s own expense.

**Simplified Declaration of Conformity**

Hereby, Westermo declares that this product is in compliance with applicable EU directives and UK legislations. The full declaration of conformity and other detailed information is available at [www.westermo.com/support/product-support](http://www.westermo.com/support/product-support).



*Figure 2. The European Conformity and the UK Conformity Assessment markings*

**Product Description**

**Product Description**

The Viper 3520 series consists of managed 20 port routing switches optimised for the needs of the railway rolling stock market. Gbps ports cope with high bandwidth devices such as access points and NVRs (Network Video Recorders). The Viper 3520 series is designed to withstand the tough environment on-board trains, exposing the switch to constant vibration, extreme temperatures, humidity and a demanding electrical environment. A GORE-TEX® membrane prevents internal condensation. Threading integrated in chassis provides for additional vibration resistance. High-level isolation between all interfaces enables direct connectivity to vehicle auxiliary power and protects against overvoltage and flashover. IP67 protection prevents ingress of water and dust. An overall optimised design results in an extremely compact package in combination with very high MTBF for easy integration and low lifecycle cost. Thorough type testing at independent ISO/IEC 17025 and ILAC MRA certified labs, accredited to a wide range of standards, show that the Viper series fulfills EN 50155 and other requirements. The state-of-the-art Westermo production facility ensures the quality of each individual unit, e.g. through temperature cycling burn-in testing. The WeOS operating system offers an extensive suite of IP networking features for resilient and flexible networks, e.g. the FRNT ring protocol with very fast failover. The powerful layer 3 routing capability is very useful for separating networks in complex applications. The backup device accessory matches the Viper in robustness and offers easy configuration update and backup. Meeting the requirements of the railcar market, the Viper 3520 series is very well suited for deployment in any other application with severe operating conditions and tough environments, for instance in the mining industry.

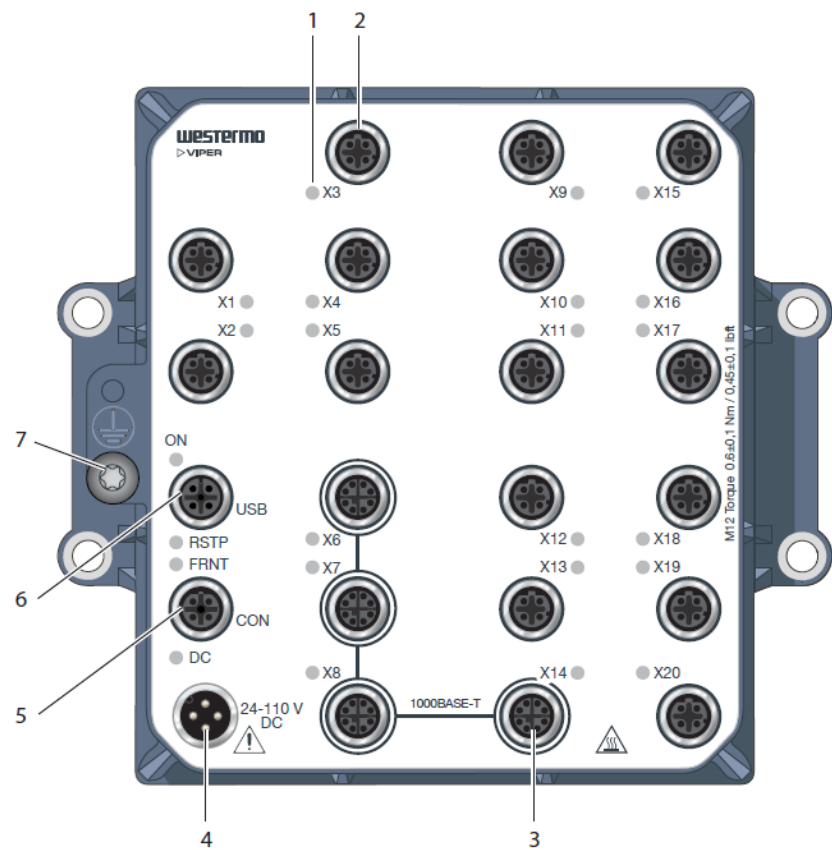
**Available Models**

All switches are managed. Viper 3520 is used when referring to both layer 2 and layer 3 models.

Art. no.	Model	SW	Gbps ports
3635-0915	Viper-3520-T20	Layer 2	–
3635-1215	Viper-3520-T4G-T16	Layer 2	4
3635-0925	Viper-3520-E-T20	Layer 3	–
3635-1225	Viper-3520-E-T4G-T16	Layer 3	4

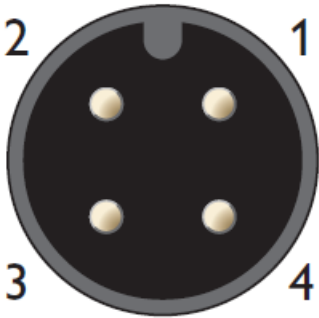
**Table 3.** Available models

Hardware Overview



No.	Description	No.	Description
1	LED indicator	2	100 Mbps port
3	Gbps port	4	Power connection
5	Console port	6	USB port
7	Protective earth connection		


Connector Pinout

Pin no.	Signal	Illustration
1	+DC1	
2	+DC2	
3	-COM	
4	-COM	

The product supports redundant power connection. The positive inputs are +DC1 and +DC2. The negative input for both supplies is -COM

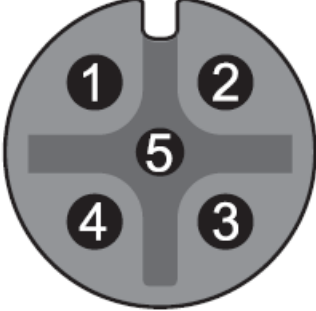


**Table 4.** Power connector, male, A-coded

Pin no.	Signal	Illustration
1	NCa.	
2	TX	
3	RX	
4	NCa.	
5	GND	

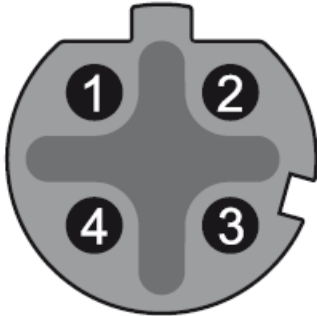
a.No Connect. Do not connect.

**Table 5.** Console connector, female, B-coded

Pin no.	Signal	Illustration
1	DN	
2	VBUS	
3	NCa.	
4	DC	
5	GND	

a.No Connect. Do not connect.

**Table 6.** USB connector, female, A-coded

Pin no.	Signal	Illustration
1	TD+	
2	RD+	
3	TD-	
4	RD-	
MDI, MDI-X and auto MDI/MDI-X modes are supported. The table shows signals in MDI mode.		

**Table 7.** 100 Mbps Ethernet connector, female, D-coded

Pin no.	Signal	Illustration
1	DA+	
2	DA-	
3	DB+	
4	DB-	
5	DD+	
6	DD-	
7	DC-	
8	DC+	

**Table 8.** Gbps connector, female, X-coded

**LED Indicators**

LED	Status	Description
ON	OFF	Product has no power
	GREEN	All OK, no alarm condition
	RED	Alarm condition, or until product has started up. (Alarm conditions are configurable, see <i>WeOS4 Management Guide</i> )
	BLINK	Location indicator (“Here I am!”). Activated when connected to WeConfig tool, or upon request from web or/and CLI. RED BLINK during boot indicates pending cable factory reset.
RSTP	OFF	RSTP disabled
	GREEN	RSTP enabled
	BLINK	Product selected as RSTP/STP root switch
FRNT	OFF	FRNT disabled
	GREEN	FRNT OK
	RED	FRNT error
	FLASH	Product configured as FRNT focal point
DC	OFF	Product has no power
	GREEN	Power OK on DC1 and DC2
	RED	Power failure on DC1 or DC2
X1 to X20	OFF	No link
	GREEN	Link established
	GREEN FLASH	Data traffic indication
	YELLOW	Port alarm, or port is set in blocking state by link redundancy protocol

**Table 9.** LED indicators

## Dimensions

Dimensions are stated in mm.

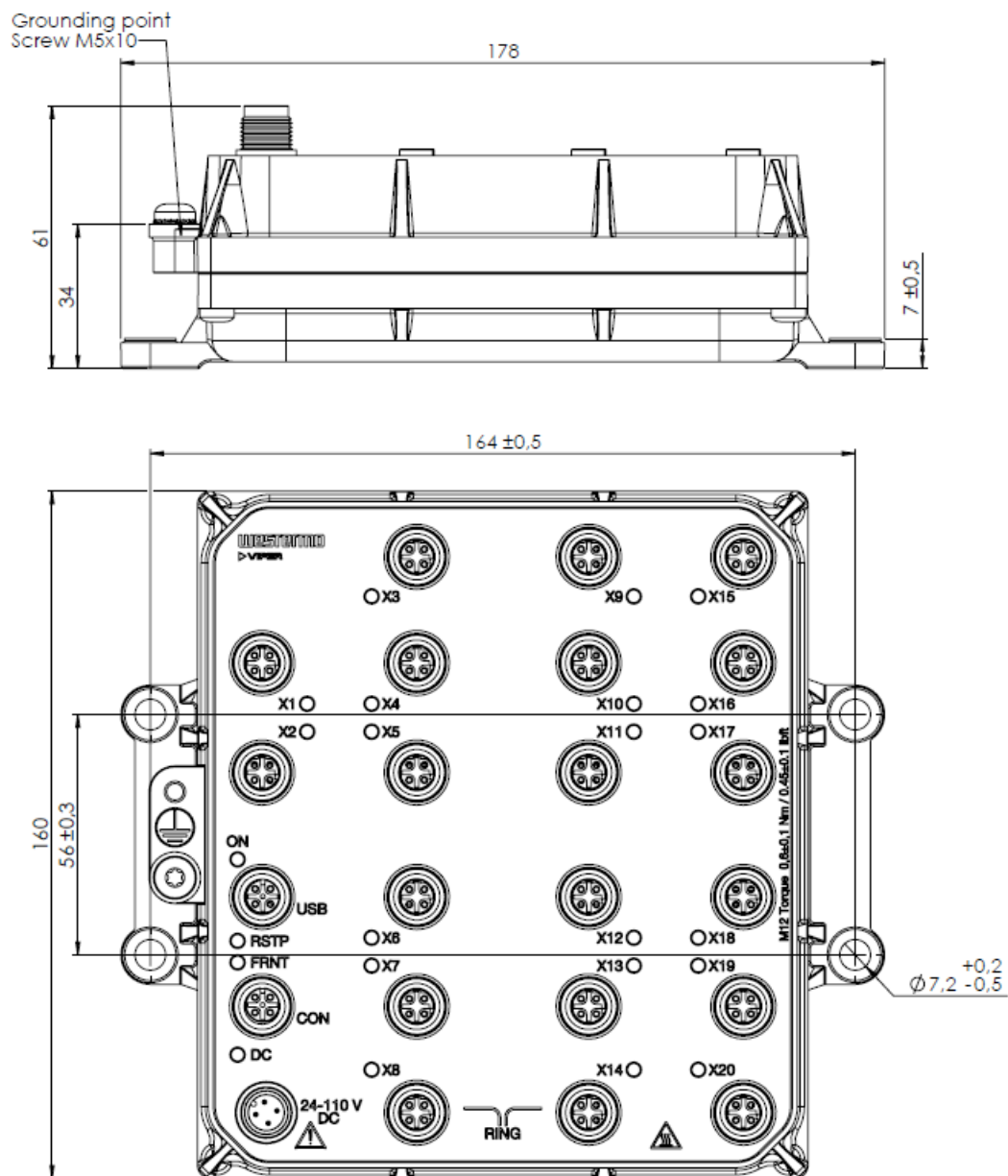


Figure 4. Dimensional drawing

## Installation

### Wall Mounting

The product can be wall mounted vertically or horizontally. There are four pieces of 7 mm bores for this. Use four M5, M6 or 1/4" screws with 12 mm washers on a flat and stable surface.

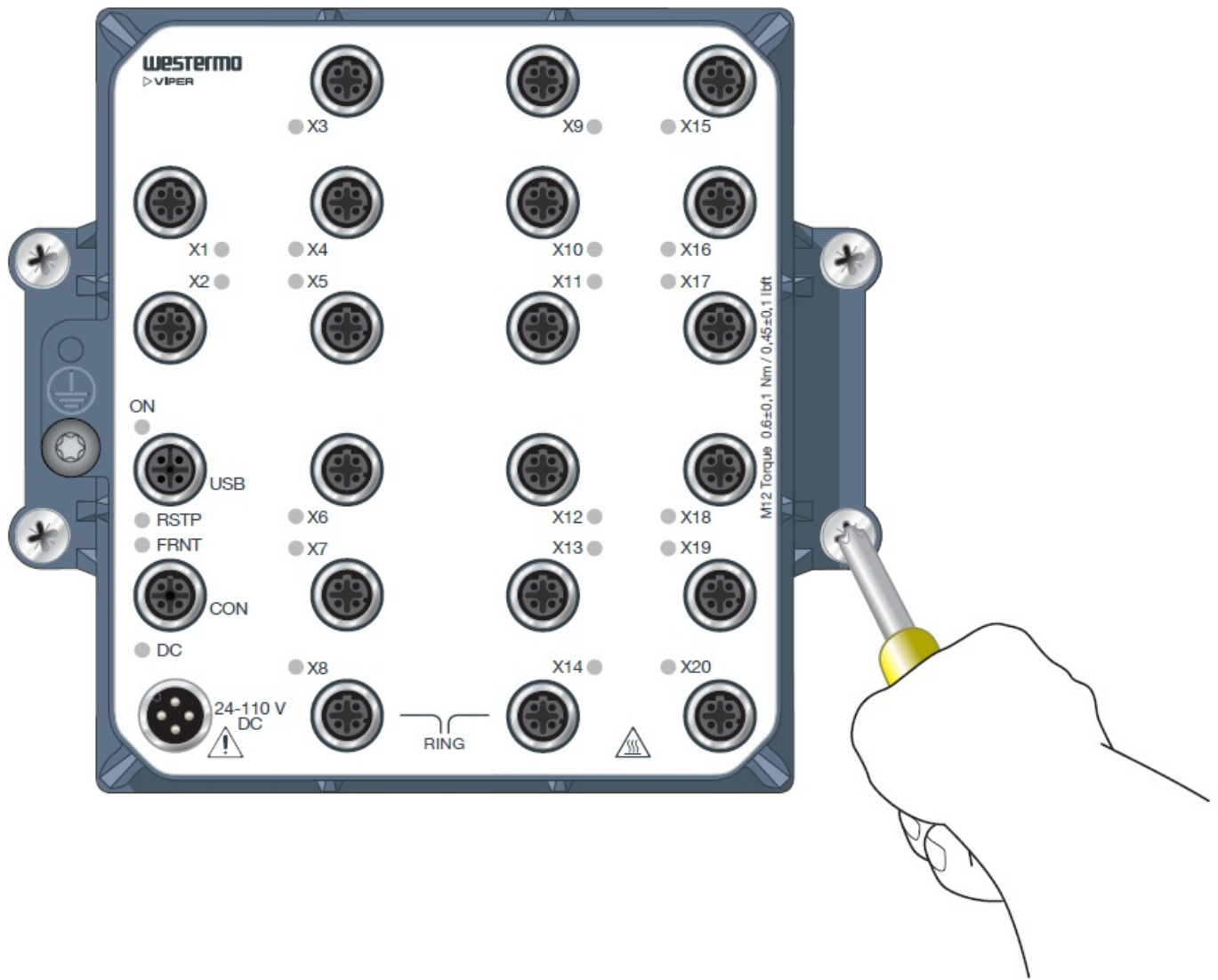
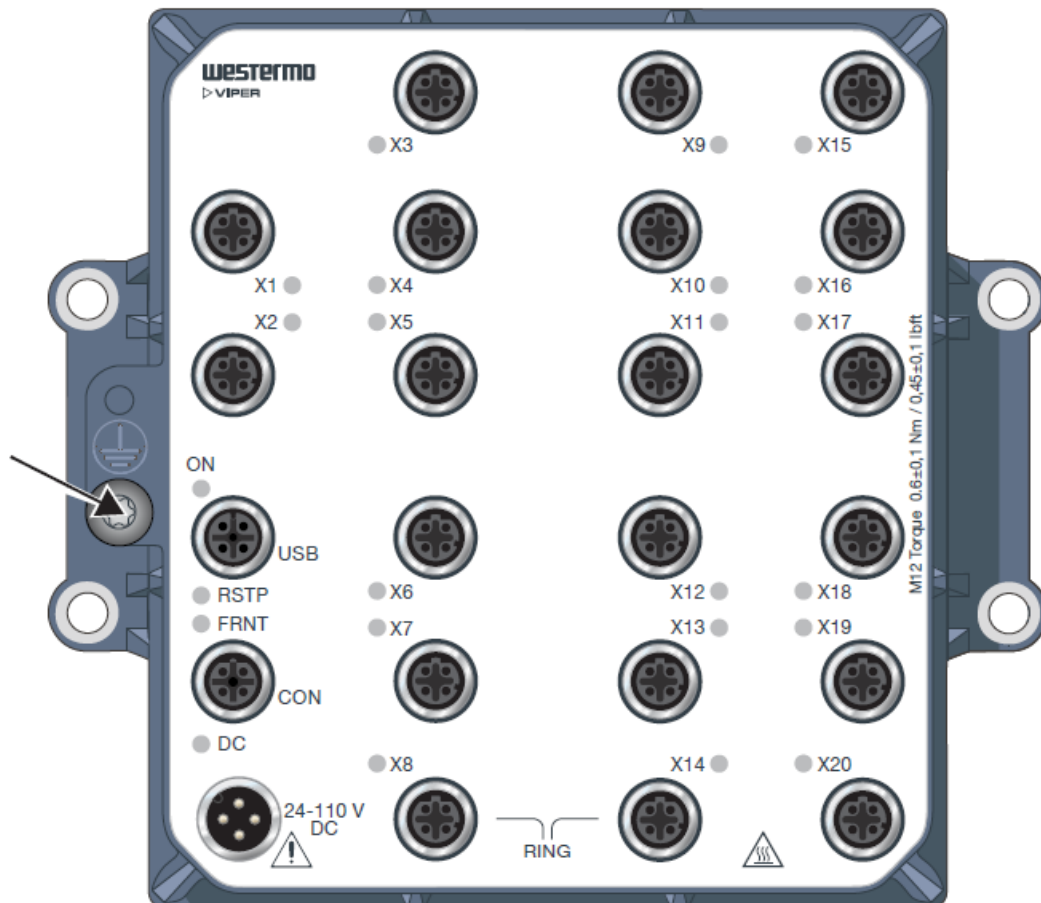


Figure 5. Wall mounting

### Protective Earth Connection

For correct function, the earth connection needs to be properly connected to a designated PE rail. Torx: T25 and torque: 3.2 Nm.



**Figure 6. Earth connection**

## Connection of Cables

The recommended tightening torque for the M12 connectors is 0.6 Nm. All M12 connections are screw connections. When connecting the power cable, ensure that the pins are connected correctly before tightening the power cable to the unit.

## PROTECTIVE FUSE

The power supply wiring must be sufficiently fused. The fuse must be IEC 60127 certified and rated for T1.6 A and 250 V. It must be possible to disconnect manually from the power supply. Ensure compliance to national installation regulations. This product has no internal fuse and should be connected via an external fuse for protection.

## NOTE – UNUSED CONNECTORS

Unused connectors must be covered by a protective cap (delivered with the product), tightened to the specified torque in order to fulfill the specified ingress protection code.

## Cooling

This product relies on convection cooling. Make sure that it is installed so that the ambient temperature is within the specified temperature range. Avoid obstruction of the airflow around the product.

## Replacement of Product

Disconnect all cables and unscrew the product from the wall. Mount the replacement product and reconnect all cables, observing the instructions in Connection of Cables [17]. For easy replication of the configuration of the original product, it is recommended to have the Westermo USB plug permanently connected to the USB port and move it over to the replacement product before it is powered up. MTTR (Mean Time To Repair), i.e. time for replacement of product is: < 15 minutes.

## **HOT SURFACE**

Be aware that the surface of this product may become hot. When it is operated at high temperatures, the external surface may exceed Touch Temperature Limit according to the product's relevant electrical safety standard.

## **EN 45545-2 Mounting Notes**

Two product can be mounted together and as a single interior non-listed group in the sense of EN 45545-2 definitions. For multiple products, the spacing requirements for interior non-listed groups must be met.

## **Specifications**

### **Interface Specifications**

<b>DC, Power port</b>	
<b>Rated voltage<sup>a</sup>.</b>	24 to 110 VDC
<b>Operating voltage<sup>b</sup>.</b>	16.8 to 143 VDC (14.4 VDC for 100 ms and 154 VDC for 1 s)
<b>Rated current</b>	Max 670 mA at 24 VDC, max 160 mA at 110 VDC
<b>Rated frequency</b>	DC
<b>Inrush current</b>	Viper-3520(-E)-T2G-P2G-T10-P6 models: 110 mA <sup>2</sup> s at 24 VDC, 140 mA <sup>2</sup> S at 110 VDC  all other Viper-3520(-E) models: 100 mA <sup>2</sup> s at 24 VDC, 140 mA <sup>2</sup> s at 110 VDC
<b>Startup current</b>	Max 1,37 A at 16.8 VDC
<b>Polarity</b>	Reverse polarity protected
<b>Redundant power input</b>	Yes
<b>Isolation</b>	To all other ports
<b>Circuit type</b>	Secondary circuit hazardous voltage, OVC II
<b>Connector</b>	4-pin, male, M12, A-coded, recommended Westermo cables: 3146-1106 for 1 .5 m, 3146-1107 for 5 m  3146-1107 for 5 m
<b>Cable size</b>	M12, recommended power cable area 0.5 mm <sup>2</sup> (minimum 0.25 mm <sup>2</sup> ), which correlates to AWG 21 or larger  Cable dimensions depend on choice of M12 connector
<b>Cable temperature rating</b>	For minimum temperature rating of the cable to be connected to the field wiring terminals: -40 to +70 °C

- a. Also referred to as nominal voltage in EN/IEC/UL 61010-1
- b. Also referred to as nominal voltage in EN/IEC/UL 61010-1



<b>100 Mbps portsa.</b>	
<b>Electrical specification</b>	IEEE std 802.3
<b>Data rate</b>	10 Mbps, 100 Mbps, manual or auto
<b>Duplex</b>	Full or half, manual or auto
<b>Circuit type</b>	TNV-1
<b>Transmission range</b>	Up to 150 m with CAT5e cable or better
<b>Isolation</b>	2250 VDC to all other portsb.
<b>Connector</b>	4-pin, female, M12, D-coded, auto MDI/MDI-X, recommended Westermo cables:  3146-1100 M12-M12 – 1 m 3146-1101 M12-M12 – 5 m 3146-1103 RJ45-M12 – 1 m 3146-1104 RJ45-M12 – 5 m
<b>Shielded cable</b>	Shielded cable CAT5e or better is recommended
<b>Conductive chassis</b>	Yes
<b>FRNT reconfiguration time</b>	Typically below 20 ms

- a. 100 Mbps ports are: X1-X5, X9-X13, X15-X20 on Viper-3520(-E)-T4G-T16 models X1-X20 on all other Viper-3520(-E) models
- b. 750 VDC after damp heat, according to EN 50155

<b>Gbps portsa.</b>	
<b>Electrical specification</b>	IEEE std 802.3
<b>Data rate</b>	10 Mbps, 100 Mbps, 1000 Mbps, manual or auto
<b>Duplex</b>	Full or half, manual or auto
<b>Circuit type</b>	TNV-1
<b>Transmission range</b>	Up to 100 m with CAT5e cable or better
<b>Isolation</b>	2250 VDC to all other portsb.
<b>Connector</b>	8-pin, female, M12, X-coded
<b>Shielded cable</b>	Shielded cable CAT5e or better is recommended
<b>Conductive chassis</b>	Yes
<b>FRNT reconfiguration time</b>	Typically below 20 ms

- a. Gbps ports are: X6-X8, X14 on Viper-3520(-E)-T4G-T16 models
- b. 750 VDC after damp heat, according to EN 50155

<b>USB port</b>	
<b>Electrical specification</b>	USB 2.0 host interface
<b>Data rate</b>	Up to 480 Mbps (high-speed mode)
<b>Maximum supply current</b>	200 mA
<b>Circuit type</b>	SELV
<b>Isolation</b>	To all Ethernet and DC ports
	No isolation to CON or protective earth
<b>Connector</b>	5-pin, female, M12, A-coded, recommended Westermo USB plug 3641-0190

<b>Console port</b>	
<b>Electrical specification</b>	RS-232
<b>Data rate</b>	115.2 kbit/s
<b>Data format</b>	8 data bits, no parity, 1 stop bit, no flow control
<b>Circuit type</b>	SELV
<b>Isolation</b>	To all Ethernet and DC ports
	No isolation to USB or protective earth
<b>Connector</b>	5-pin, female, M12, B-coded, recommended Westermo cables: 1211-2215 (serial port) or 1211-4073 (USB)

## Type Tests and Environmental Conditions

Environmental phenomena	Basic standard	Description	Test levels
ESD	EN 61000-4-2	Enclosure	Contact: $\pm 6$ kV Air: $\pm 8$ kV
Fast transients	EN 61000-4-4	Power port	$\pm 2$ kV
		Signal ports	
		Earth port	
Surge	EN 61000-4-5	Power port	L-E: $\pm 2$ kV, $42 \Omega$ , $0.5 \mu\text{F}$ , $1.2/50 \mu\text{s}$ L-E: $\pm 1$ kV, $12 \Omega$ , $9 \mu\text{F}$ , $1.2/50 \mu\text{s}$ L-L: $\pm 2$ kV, $42 \Omega$ , $0.5 \mu\text{F}$ , $1.2/50 \mu\text{s}$ L-L: $\pm 0.5$ kV, $2 \Omega$ , $18 \mu\text{F}$ , $1.2/50 \mu\text{s}$
		Ethernet port	L-E: $\pm 2$ kV, $2 \Omega$
Pulsed magnetic field	EN 61000-4-9	Enclosure	300 A/m
Radiated RF immunity	EN 61000-4-3	Enclosure	20 V/m at (80 MHz to 2 GHz) 10 V/m at (2-6 GHz) 1 kHz sine, 80% AM
Conducted RF immunity	EN 61000-4-6	Power port	10 V, 80% AM, 1 kHz; (0.15-80) MHz
		Ethernet ports	
		Earth port	
Radiated RF emission	CISPR 16-2-3	Enclosure	EN 61000-6-4 (30-6000 MHz)
	ANSI C63,4 (FCC Part 15)		EN 61000-6-4 (30-6500 MHz)
Conducted RF emission	CISPR 16-2-1	Power port	EN 61000-6-4
		Ethernet ports	EN 61000-6-3
Dielectric strength	EN 50155	Power port to all other ports	2250 VDC, 1 min
		Ethernet ports to all other ports	2250 VDC, 1 min.
		Gbps Ethernet ports to all other ports	2250 VDC, 1 min.

- a.750 VDC after damp heat, according to EN 50155

**Table 10.** EMC and electrical conditions

Environmental phenomena	Basic standard	Description	Test levels
<b>Temperatures</b>	EN 60068-2-1	Operational	-40 to +70°C (-40 to +158°F) a., b.
	EN 60068-2-2	Storage and transport	-55 to +85°C (-67 to +185°F)
<b>Humidity</b>	EN 60068-2-30	Operational	5-95% relative humidity
		Storage and transport	
<b>Altitude</b>		Operational	2000 m/80 kPa
<b>Service life</b>		Operational	20 years according to IEC/TR 62380
<b>MTBF</b>	MIL-HDBK-217F2, GB, 25°C (+77°F)		Viper-3520(-E)-T2G-P2G-T10-P6 models: 522,000 h all other Viper-3520(-E) models: 530,500 h
<b>Vibration</b>	IEC 60068-2-6 (sine)	Operational	2 g rms 5-500 Hz, 5 sweeps
	IEC 60068-2-64 (random)	Non-operational long life simulation	11.44 m/s <sup>2</sup> rms 5-150 Hz, 5 hours 2.3 m/s <sup>2</sup> rms 5-2000 Hz, 1.5 hours
<b>Shock</b>	IEC 60068-2-27	Operational	10 g, 30 ms, half sine 20 g, 11 ms, saw tooth 100 g, 6 ms, half sine
<b>Weight</b>			1.6 kg
<b>Degree of protection</b>	EN 60529	Enclosure	IP67
<b>Cooling</b>			Convection
<b>Overvoltage category</b>	EN/IEC/UL 61010-1		OVC II
<b>Pollution degree</b>	EN/IEC/UL 61010-1		PD3 macro environment and PD2 micro environments.
	EN 50124-1		PD2
<b>Location</b>	EN/IEC/UL 61010-1		Outdoor, wet locations
	IEEE 1478		Class 1, condition E4. Indoor

- a. Refer to “Safety and Regulations” chapter regarding touch temperature
- b. Operational at +85°C for a limited time

- c. Installation and maintenance shall be made under controlled environments.

**Table 11.** Environmental and mechanical conditions

**Revision Notes**

Revision	Date	Change description
Rev. B	2025-03	1.6 Integrity Seal; new chapter
Rev. A	2024-10	First version

**more info**

- [www.westermo.com](http://www.westermo.com)

**FAQs**

- **Q: How do I reset the switch to factory settings?**
  - A: Detailed instructions for factory reset can be found in the WeOS user documentation available at [www.westermo.com](http://www.westermo.com).
- **Q: What should I do if the integrity seal is broken on the product package?**
  - A: Contact your support channel immediately for further guidance on next steps.

**Documents / Resources**

	<a href="#">Westermo 3520 Series Managed Routing Switch</a> [pdf] User Guide 3520, 3520 Series Managed Routing Switch, 3520 Series, Managed Routing Switch, Routing Switch, Switch
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**References**

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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