



# Product guide 2018

CREATING THE WORLD'S BEST INDUSTRIAL NETWORKS

## Industrial Data Communications Heritage

Produced by: Westermo Teleindustri AB

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Westermo was established in 1975. The head office is located 150 km (95 miles) southwest of Stockholm, Sweden. Over the years Westermo has grown with subsidiaries being established in Sweden, Finland, UK, Germany, France, Singapore, Taiwan, North America and Australia and sales partners appointed in over 35 countries worldwide.

The first Westermo data communications product was an RS-232 line driver, the KM-1, that allowed data to be transmitted over great distances using twisted pair cables. Today we still sell a product, the MD-12, that is plug compatible with this device.

In the 1990s, Westermo created the world's first industrial DIN rail mount telephone modem, the TD-22, pioneering remote access solutions for industrial devices like PLCs and HMIs.



## Swedish Engineering Excellence

Westermo provides a full range of data communications solutions for demanding applications in industries that include transport, water and energy markets. Since 1975 we have been at the forefront of technological development and continue to push the limits of what is technically possible.

We offer the highest levels of service to help our customers to select, configure and install the right solution for their needs. Our experience and expertise goes far beyond our own product range, so that regardless of whether your installation is in a substation, water treatment plant or alongside a railway, we understand the specific demands and are able to provide the right advice.

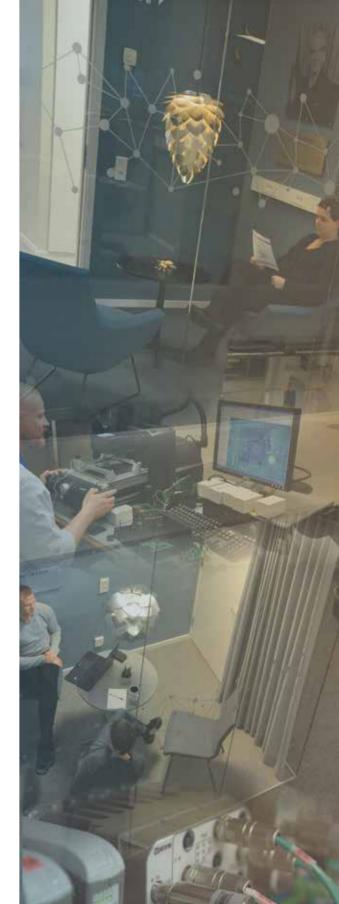
#### Made in Sweden

To ensure the highest quality, all Westermo products are manufactured in our own state of the art industrial electronics manufacturing facility in Sweden.

For more information about products and services from Westermo, please visit our website at www.westermo.com

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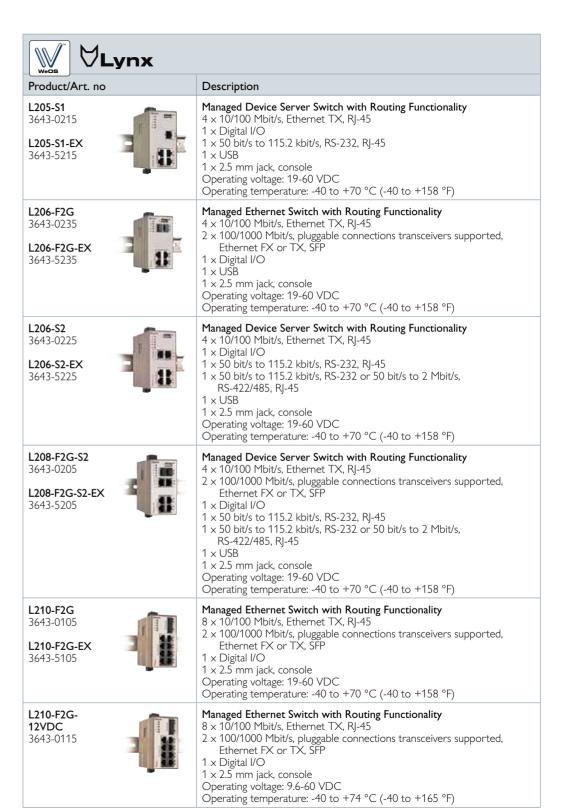
## Robust Ethernet switches that can withstand all industrial environments

Our industrial Ethernet switches are designed for use in harsh environments and allow you to build cost-effective, reliable, secure networks. Whether you require an unmanaged switch for a point-to-point link, a managed switch for redundancy or a layer 3 switch for network routing, we have the ideal solution, regardless of the environment. Our extensive range of switches and knowledge of the various standards are used in train, railway, energy, utilities and road applications.

#### Managed Ethernet Switches

<b>₩</b> ∀Lynx	
Product/Art. no	Description
L105-S1 3643-0210 L105-S1-EX 3643-5210	Managed Device Server Switch  4 × 10/100 Mbit/s, Ethernet TX, RJ-45  1 × Digital I/O  1 × 50 bit/s to 115.2 kbit/s, RS-232, RJ-45  1 × USB  1 × 2.5 mm jack, console  Operating voltage: 19-60 VDC  Operating temperature: -40 to +70 °C (-40 to +158 °F)
L106-F2G 3643-0230 L106-F2G-EX 3643-5230	Managed Ethernet Switch  4 × 10/100 Mbit/s, Ethernet TX, RJ-45  2 × 100/1000 Mbit/s, pluggable connections transceivers supported, Ethernet FX or TX, SFP  1 × Digital I/O  1 × USB  1 × 2.5 mm jack, console Operating voltage: 19-60 VDC Operating temperature: -40 to +70 °C (-40 to +158 °F)
L106-S2 3643-0220 L106-S2-EX 3643-5220	Managed Device Server Switch  4 × 10/100 Mbit/s, Ethernet TX, RJ-45  1 × Digital I/O  1 × 50 bit/s to 115.2 kbit/s, RS-232, RJ-45  1 × 50 bit/s to 115.2 kbit/s, RS-232 or 50 bit/s to 2 Mbit/s, RS-422/485, RJ-45  1 × USB  1 × 2.5 mm jack, console  Operating voltage: 19-60 VDC  Operating temperature: -40 to +70 °C (-40 to +158 °F)
L108-F2G-S2 3643-0200 L108-F2G-S2-EX 3643-5200	Managed Device Server Switch  4 × 10/100 Mbit/s, Ethernet TX, RJ-45  2 × 100/1000 Mbit/s, pluggable connections transceivers supported, Ethernet FX or TX, SFP  1 × Digital I/O  1 × 50 bit/s to 115.2 kbit/s, RS-232, RJ-45  1 × 50 bit/s to 115.2 kbit/s, RS-232 or 50 bit/s to 2 Mbit/s, RS-422/485, RJ-45  1 × USB  1 × 2.5 mm jack, console Operating voltage: 19-60 VDC Operating temperature: -40 to +70 °C (-40 to +158 °F)
L110-F2G 3643-0100 L110-F2G-EX 3643-5100	Managed Ethernet Switch 8 × 10/100 Mbit/s, Ethernet TX, RJ-45 2 × 100/1000 Mbit/s, pluggable connections transceivers supported, Ethernet FX or TX, SFP 1 × Digital I/O 1 × 2.5 mm jack, console Operating voltage: 19-60 VDC Operating temperature: -40 to +70 °C (-40 to +158 °F)
L110-F2G- 12VDC 3643-0110	Managed Ethernet Switch 8 × 10/100 Mbit/s, Ethernet TX, RJ-45 2 × 100/1000 Mbit/s, pluggable connections transceivers supported, Ethernet FX or TX, SFP 1 × Digital I/O 1 × 2.5 mm jack, console Operating voltage: 9.6-60 VDC Operating temperature: -40 to +74 °C (-40 to +165 °F)





Ethernet Switches



<b>V</b> RedFox		
Product/Art. no	Description	
<b>RFI-111-F4G-T7G</b> 3641-4315	Industrial Switch 7 × 10/100/1000 Mbit/s, Gigabit Ethernet TX, RJ-45 4 × 100/1000 Mbit/s, pluggable connections transceivers supported, Ethernet FX or TX, SFP 1 × Digital I/O 1 × Micro USB, console 1 × USB Operating voltage: 16-60 VDC Operating temperature: -40 to +70 °C (-40 to +158 °F)	
<b>RFI-119-F4G-T7G</b> 3641-4305	Industrial Switch 7 × 10/100/1000 Mbit/s, Ethernet TX, RJ-45 8 × 10/100 Mbit/s, Ethernet TX, RJ-45 4 × 100/1000 Mbit/s, pluggable connections transceivers supported, Ethernet FX or TX, SFP 1 × Digital I/O 1 × Micro USB, console 1 × USB Operating voltage: 16-60 VDC Operating temperature: -40 to +70 °C (-40 to +158 °F)	
RFI-207-F4G-T3G 3641-4210 RFI-207-F4G-T3G-EX 3641-5210	Industrial Routing Switch  3 × 10/100/1000 Mbit/s, Ethernet TX, RJ-45  4 × 100/1000 Mbit/s, pluggable connections transceivers supported, Ethernet FX or TX, SFP  1 × Digital I/O  1 × Micro USB, console  1 × USB  Operating voltage: 16-60 VDC  Operating temperature: -40 to +70 °C (-40 to +158 °F)	
RFI-211-T3G 3641-4110 RFI-211-T3G-EX 3641-5110	Industrial Routing Switch  3 × 10/100/1000 Mbit/s, Ethernet TX, RJ-45  8 × 10/100 Mbit/s, Ethernet TX, RJ-45  1 × Digital I/O  1 × Micro USB, console  1 × USB  Operating voltage: 16-60 VDC  Operating temperature: -40 to +70 °C (-40 to +158 °F)	
RFI-211-F4G-T7G 3641-4310 RFI-211-F4G-T7G-EX 3641-5310	Industrial Routing Switch 7 × 10/100/1000 Mbit/s, Gigabit Ethernet TX, RJ-45 4 × 100/1000 Mbit/s, pluggable connections transceivers supported, Ethernet FX or TX, SFP 1 × Digital I/O 1 × Micro USB, console 1 × USB Operating voltage: 16-60 VDC Operating temperature: -40 to +70 °C (-40 to +158 °F)	

Ethernet Switches



**Ethernet Switches** 

<b>VRedFox</b>	
Product/Art. no	Description
RFI-215-F4G-T3G 3641-4200 RFI-215-F4G-T3G-EX 3641-5200	Industrial Routing Switch  3 × 10/100/1000 Mbit/s, Ethernet TX, RJ-45  8 × 10/100 Mbit/s, Ethernet TX, RJ-45  4 × 100/1000 Mbit/s, pluggable connections transceivers supported, Ethernet FX or TX, SFP  1 × Digital I/O  1 × Micro USB, console  1 × USB  Operating voltage: 16-60 VDC  Operating temperature: -40 to +70 °C (-40 to +158 °F)
RFI-219-T3G 3641-4100 RFI-219-T3G-EX 3641-5100	Industrial Routing Switch  3 × 10/100/1000 Mbit/s, Ethernet TX, RJ-45  16 × 10/100 Mbit/s, Ethernet TX, RJ-45  1 × Digital I/O  1 × Micro USB, console  1 × USB  Operating voltage: 16-60 VDC  Operating temperature: -40 to +70 °C (-40 to +158 °F)
RFI-219-F4G-T7G 3641-4300 RFI-219-F4G-T7G-EX 3641-5300	Industrial Routing Switch  8 × 10/100 Mbit/s, Ethernet TX, RJ-45  7 × 10/100/1000 Mbit/s, Gigabit Ethernet TX, RJ-45  4 × 100/1000 Mbit/s, pluggable connections transceivers supported, Ethernet FX or TX, SFP  1 × Digital I/O  1 × Micro USB, console  1 × USB  Operating voltage: 16-60 VDC  Operating temperature: -40 to +70 °C (-40 to +158 °F)
RFI-219-F4G-T7G-F8 3641-4320 RFI-219-F4G-T7G-F8-EX 3641-5320	Industrial Routing Switch 7 × 10/100/1000 Mbit/s, Gigabit Ethernet TX, RJ-45 4 × 100/1000 Mbit/s, pluggable connections transceivers supported, Ethernet FX or TX, SFP 8 × 100 Mbit/s, pluggable connections transceivers supported, Ethernet FX or TX, SFP 1 × Digital I/O 1 × Micro USB, console 1 × USB Operating voltage: 16-60 VDC Operating temperature: -40 to +70 °C (-40 to +158 °F)



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Product/Art. no	Description	
RFIR-127-F4G-T7G-AC 3641-4030 RFIR-127-F4G-T7G-DC 3641-4020	Industrial Switch 7 × 10/100/1000 Mbit/s, Ethernet TX, RJ-45 4 × 100/1000 Mbit/s, pluggable connections transceivers supported, Ethernet FX or TX, SFP 16 × 10/100 Mbit/s, Ethernet FX, RJ-45 1 × Digital I/O 1 × Micro USB, console 1 × USB Operating voltage: 100-240 VAC or 16-60 VDC Operating temperature AC: -40 to +55 °C (-40 to +131 °F) Operating temperature DC:-40 to +70 °C (-40 to +158 °F)	
RFIR-219-F4G-T7G-AC 3641-4015 RFIR-219-F4G-T7G-DC 3641-4005	Industrial Routing Switch 7 × 10/100/1000 Mbit/s, Ethernet TX, RJ-45 4 × 100/1000 Mbit/s, pluggable connections transceivers supported, Ethernet FX or TX, SFP 8 × 10/100 Mbit/s, Ethernet FX, RJ-45 1 × Digital I/O 1 × Micro USB, console 1 × USB Operating voltage: 100-240 VAC or 16-60 VDC Operating temperature AC: -40 to +55 °C (-40 to +131 °F) Operating temperature DC: -40 to +70 °C (-40 to +158 °F)	
RFIR-227-F4G-T7G-AC 3641-4035 RFIR-227-F4G-T7G-DC 3641-4025	Industrial Routing Switch  7 × 10/100/1000 Mbit/s, Ethernet TX, RJ-45  4 × 100/1000 Mbit/s, pluggable connections transceivers supported, Ethernet FX or TX, SFP  16 × 10/100 Mbit/s, Ethernet FX, RJ-45  1 × Digital I/O  1 × Micro USB, console  1 × USB  Operating voltage: 100-240 VAC or 16-60 VDC  Operating temperature AC: -40 to +55 °C (-40 to +131°F)  Operating temperature DC: -40 to +70 °C (-40 to +158°F)	
RFR-212-FB 3641-1640	EN 50155 Backbone Routing Switch 12 × 10/100 Mbit/s, Ethernet TX, M12 Dual by-pass relays 1 × M12 USB configuration plug Operating voltage: 16.8-143 VDC Operating temperature: -40 to +70 °C (-40 to +158 °F)	



Operating temperature: -40 to +70 °C (-40 to +158 °F)

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## Unmanaged Ethernet Switches

Product/Art. no	Description
SDW-500-series 3644-xxxx	Industrial Ethernet 5-port Switch  SDW-532  3 × 10/100 Mbit/s, Ethernet TX, RJ-45  2 × 100 Mbit/s, Ethernet FX, LC, SC or ST connector  Operating voltage: 9.6-57.6 VDC  Operating temperature: -25 °C to +70 °C (-13 °F to +158 °F)
	SDW-541 4 x 10/100 Mbit/s, Ethernet TX, RJ-45 1 x 100 Mbit/s, Ethernet FX, LC, SC or ST connector Operating voltage: 9.6-57.6 VDC Operating temperature: -25 °C to +70 °C (-13 °F to +158 °F)
	SDW-541-F1G-T4G 4 × 10/100/1000 Mbit/s, Ethernet TX, RJ-45 1 × 100/1000 Mbit/s, Ethernet FX, SFP Operating voltage: 9.6-57.6 VDC Operating temperature: -40 to +74 °C (-40 to +165 °F)
	SDW-550 5 x 10/100 Mbit/s, Ethernet TX, RJ-45 Operating voltage: 96-57.6 VDC Operating temperature: -25 to +70 °C (-13 to +158 °F)
	SDW-550-T5G $5 \times 10/100/1000$ Mbit/s, Ethernet TX, RJ-45 Operating voltage: 9.6-57.6 VDC Operating temperature: -40 to +74 °C (-40 to +165 °F)

₩Viper		
Product/Art. no		Description
<b>Viper-008</b> 3641-0340		EN 50155 M12 Switch 8 × 10/100 Mbit/s, Ethernet TX, M12 Operating voltage: 16.8-143 VDC Operating temperature: -40 to +70 °C (-40 to +158 °F)
<b>Viper-012</b> 3641-0540		EN 50155 Switch 12 × 10/100 Mbit/s, Ethernet TX, M12 Operating voltage: 16.8-143 VDC Operating temperature: -40 to +70 °C (-40 to +158 °F)

i-line	
Product/Art. no.	Description
SDI-541-MM-SC2 3625-0001	5-port Ethernet Fibre Switch 4 × 10/100 Mbit/s, Ethernet TX, RJ-45 1 × 100 Mbit/s, Ethernet FX, Multi-mode 2 km, SC connector 1 × Power/Relay, 4-pin terminal block Operating voltage: 18-32 VDC or 18-27 VAC Operating temperature: -10 to +60 °C (+14 to +140 °F)
SDI-541-SM-SC30 3625-0010	5-port Ethernet Fibre Switch 4 × 10/100 Mbit/s, Ethernet TX, RJ-45 1 × 100 Mbit/s, Ethernet FX, Single-mode 30 km, SC connector 1 × Power/Relay, 4-pin terminal block Operating voltage: 18-32 VDC or 18-27 VAC Operating temperature: -10 to +60 °C (+14 to +140 °F)
<b>SDI-550</b> 3625-0050	5-port Ethernet Switch 5 × 10/100 Mbit/s, Ethernet TX, RJ-45 1 × Power/Relay, 4-pin terminal block Operating voltage: 18-32 VDC or 18-27 VAC Operating temperature: -25 to +70 °C (-13 to +158 °F)
SDI-862-MM-SC2 3625-0110	8-port Ethernet Fibre Switch 6 × 10/100 Mbit/s, Ethernet TX, RJ-45 2 × 100 Mbit/s, Ethernet FX, Multi-mode 2 km, SC connector 1 × Alarm relay, terminal block connector with 1 A @ DC 24 V carry ability Operating voltage: 10-60 VDC Operating temperature: -10 to +70 °C (+14 to +158 °F)
SDI-862-SM-SC30 3625-0120	8-port Ethernet Fibre Switch 6 × 10/100 Mbit/s, Ethernet TX, RJ-45 2 × 100 Mbit/s, Ethernet FX, Single-mode 30 km, SC connector 1 × Alarm relay, terminal block connector with 1 A @ DC 24 V carry ability Operating voltage: 10-60 VDC Operating temperature: -10 to +70 °C (+14 to +158 °F)
<b>SDI-880</b> 3625-0100	8-port Ethernet Switch 8 × 10/100 Mbit/s, Ethernet TX, RJ-45 1 × Alarm relay, terminal block connector with 1 A @ DC 24 V carry ability Operating voltage: 10-60 VDC Operating temperature: -25 to +70 °C (-13 to +158 °F)

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#### Managed PoE Ethernet Switches



Product/Art. no

Viper-112A-P8-HV 3635-0110

Viper-112A-P8-LV 3635-0210



Description EN 50155 PoE Switch

12 x 10/100 Mbit/s, Ethernet TX, M12 (8 with PoE capability)  $1 \times USB$ 

1 x console port, RS-232

Operating voltage HV: 33.6-143 VDC Operating voltage LV: 16.8-49.4 VDC

Operating temperature: -40 to +70 °C (-40 to +158 °F)

Viper-112A-T3G-P8-HV 3635-0410

Viper-112A-T3G-P8-LV 3635-0510



EN 50155 Gbps PoE Switch

9 x 10/100 Mbit/s. Ethernet TX. M12 (8 with PoE capability) 3 x 10/100/1000 Mbit/s. Ethernet TX, M12

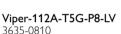
1 x console port. RS-232

Operating voltage HV: 33.6-143 VDC

Operating voltage LV: 16.8-49.4 VDC

Operating temperature: -40 to +70 °C (-40 to +158 °F)

Viper-112A-T5G-P8-HV 3635-0710





EN 50155 Gbps PoE Switch

 $7 \times 10/100$  Mbit/s. Ethernet TX. M12 (8 with PoE capability)

5 x 10/100/1000 Mbit/s. Ethernet TX, M12

1 x USB

1 x console port, RS-232

Operating voltage HV: 33.6-143 VDC

Operating voltage LV: 16.8-49.4 VDC

Operating temperature: -40 to +70 °C (-40 to +158 °F)

Viper-212A-P8-HV 3635-0120





EN 50155 PoE Routing Switch

12 x 10/100 Mbit/s, Ethernet TX, M12 (8 with PoE capability)

 $1 \times USB$ 

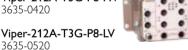
1 x console port, RS-232

Operating voltage HV: 33.6-143 VDC

Operating voltage LV: 16.8-49.4 VDC

Operating temperature: -40 to +70 °C (-40 to +158 °F)

Viper-212A-T3G-P8-HV 3635-0420



EN 50155 Gbps PoE Routing Switch

9 x 10/100 Mbit/s, Ethernet TX, M12 (8 with PoE capability)

3 x 10/100/1000 Mbit/s. Ethernet TX. M12

 $1 \times USB$ 

1 x console port, RS-232

Operating voltage HV: 33.6-143 VDC

Operating voltage LV: 16.8-49.4 VDC

Operating temperature: -40 to +70 °C (-40 to +158 °F)

Viper-212A-T5G-P8-HV 3635-0720



EN 50155 Gbps PoE Switch

 $7 \times 10/100$  Mbit/s. Ethernet TX. M12 (8 with PoE capability)

5 x 10/100/1000 Mbit/s, Ethernet TX, M12

 $1 \times USB$ 

1 x console port, RS-232

Operating voltage HV: 33.6-143 VDC

Operating voltage LV: 16.8-49.4 VDC

Operating temperature: -40 to +70 °C (-40 to +158 °F)



Product/Art. no

Viper-120A-P8-HV 3635-1010

Viper-120A-P8-LV 3635-1110



Description

EN 50155 PoE Switch

20 x 10/100 Mbit/s. Fthernet TX. M12 (8 with PoF capability)

1 x console port, RS-232

Operating voltage HV: 33.6-143 VDC

Operating voltage LV: 16.8-49.4 VDC

Operating temperature: -40 to +70 °C (-40 to +158 °F)

Viper-120A-T4G-P8-HV 3635-1310

Viper-120A-T4G-P8-LV 3635-1410



EN 50155 Gbps PoE Switch

16 x 10/100 Mbit/s. Ethernet TX. M12 (8 with PoE capability)

4 x 10/100/1000 Mbit/s. Ethernet TX. M12

1 x console port, RS-232

Operating voltage HV: 33.6-143 VDC

Operating voltage LV: 16.8-49.4 VDC

Operating temperature: -40 to +70 °C (-40 to +158 °F)

Viper-220A-P8-HV 3635-1020

Viper-220A-P8-LV 3635-11200



EN 50155 PoE Switch

20 x 10/100 Mbit/s, Ethernet TX, M12 (8 with PoE capability)

 $1 \times USB$ 

1 x console port, RS-232

Operating voltage HV: 33.6-143 VDC

Operating voltage LV: 16.8-49.4 VDC

Operating temperature: -40 to +70 °C (-40 to +158 °F)

Viper-220A-T4G-P8-HV 3635-1320

Viper-220A-T4G-P8-LV 3635-1420



EN 50155 Gbps PoE Switch

16 x 10/100 Mbit/s, Ethernet TX, M12 (8 with PoE capability)

4 x 10/100/1000 Mbit/s, Ethernet TX, M12

 $1 \times USB$ 

1 x console port, RS-232

Operating voltage HV: 33.6-143 VDC

Operating voltage LV: 16.8-49.4 VDC

Operating temperature: -40 to +70 °C (-40 to +158 °F)

#### i-line

Product/Art. no.

PMI-110-F2G 3626-0200



Description

Managed PoE GigE Switch

8 x 10/100 Mbit/s Ethernet TX, RI-45, PoE

 $2 \times 10/100/1000$  Mbit/s. Ethernet TX or 100/1000 Mbit/s. Ethernet FX. SFP combo ports

Operating voltage: 46-57 VDC

Operating temperature: -40 to +70 °C (-40 to +158 °F)

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### Unmanaged PoE Ethernet Switches

i-line	
Product/Art. no.	Description
<b>PII-2G</b> 3626-0300	Industrial 2-Port PoE Injector 2 × 10/100/1000 Mbit/s, Ethernet TX, RJ-45 2 × 10/100/1000 Mbit/s, Ethernet TX, RJ-45, PoE Operating voltage: 46-57 VDC Operating temperature: -40 to +70 °C (-40 to +158 °F)
<b>PSI-660G-24V</b> 3626-0100	PoE Booster Switch 4 × 10/100 Mbit/s Ethernet TX, RJ-45, PoE 2 × 10/100/1000 Mbit/s, Ethernet TX, RJ-45 Operating voltage: 12-24 VDC Operating temperature: -25 to +60 °C (-13 to +140 °F)
<b>PSI-1010G-24V</b> 3626-0110	PoE Booster Switch 8 × 10/100 Mbit/s Ethernet TX, RJ-45, PoE 2 × 10/100/1000 Mbit/s, Ethernet TX, RJ-45 Operating voltage: 12-24 VDC Operating temperature: -25 to +60 °C (-13 to +140 °F)
<b>PSI-1010G-48V</b> 3626-0120	PoE Switch 8 × 10/100 Mbit/s Ethernet TX, RJ-45, PoE 2 × 10/100/1000 Mbit/s, Ethernet TX, RJ-45 Operating voltage: 46-57 VDC Operating temperature: -25 to +70 °C (-13 to +158 °F)



# WeConfig - Networking made easy

WeConfig is a network configuration management tool that makes it easy to configure single or multiple Westermo devices. WeConfig simplifies both the initial installation of a network and ongoing maintenance once commissioned.

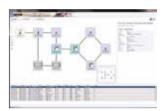
#### Easy replacement and reconfiguration

Project files store all associated backup files and network topology information. These enable fast and easy replacement and reconfiguration of a damaged switch in the field. A new device can be installed and will automatically be discovered on the network by WeConfig. The configuration file of the old unit can simply be restored from the project file and the network is repaired.

#### Configuration, monitoring and diagnostics

To achieve network resilience, Westermo devices are automatically reconfigured. In the event of a network failure processes running on the network are therefore unaffected. Because processes are not interrupted, the user might not be aware that a network failure has occurred. WeConfig graphically displays the failed link as well as record of the time.

Download WeConfig for free at www.westermo.com



- Rapid configuration of new network components saving time
- Network monitoring and diagnostics
- Easy maintenance of network components
- Wetwork configuration information readily available

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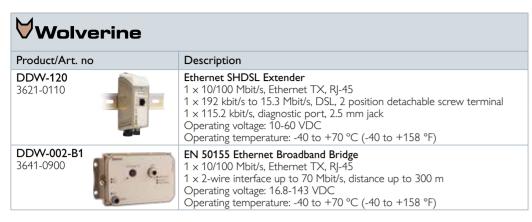


- Point-to-Point Ethernet Extenders
- Managed Network Ethernet Extenders

## Extend your network far beyond the normal limits of Ethernet

Our industrial Wolverine series of industrial Ethernet extenders allow cost-effective Ethernet networks to be created over long distances, at high data rates. The SHDSL technology employed makes it possible to reuse many types of pre-existing cabling which in turn can lead to considerable financial savings. With support for multidrop networks, redundant rings, legacy serial connections and layer 3 routing functions, our range of Ethernet extenders can meet any demand the application requires.

### Point-to-Point Ethernet Extenders



### Managed Network Ethernet Extenders

₩olverine		
Product/Art. no	Description	
DDW-142 3642-0300 DDW-142-EX 3642-5300	Industrial Ethernet Extender  2 × 10/100 Mbit/s, Ethernet TX, RJ-45  2 × 32 kbit/s to 15.3 Mbit/s (30.4 with bonding), SHDSL, 2-position detachable screw terminal  1 × 300 bit/s to 115.2 kbit/s, RS-232, RJ-45  1 × Digital I/O, 4-position detachable screw terminal  1 × USB  1 × 2.5 mm jack, console  Operating voltage: 19-60 VDC  Operating temperature: -40 to +70 °C (-40 to +158 °F)	
DDW-142-12VDC 3642-0400	Industrial Ethernet Extender  2 × 10/100 Mbit/s, Ethernet TX, RJ-45  2 × 32 kbit/s to 15.3 Mbit/s (30.4 with bonding), SHDSL, 2-position detachable screw terminal  1 × 300 bit/s to 115.2 kbit/s, RS-232, RJ-45  1 × Digital I/O, 4-position detachable screw terminal  1 × USB  1 × 2.5 mm jack, console  Operating voltage: 9.6-60 VDC  Operating temperature: -40 to +74 °C (-40 to +165 °F)	
DDW-142-12VDC-BP 3642-0440	Industrial Ethernet Extender with bypass relay 2 × 10/100 Mbit/s, Ethernet TX, RJ-45 2 × 32 kbit/s to 15.3 Mbit/s (30.4 with bonding), SHDSL, 2-position detachable screw terminal 1 × 300 bit/s to 115.2 kbit/s, RS-232, RJ-45 1 × Digital I/O, 4-position detachable screw terminal 1 × USB 1 × 2.5 mm jack, console Operating voltage: 9.6-60 VDC Operating temperature: -40 to +74 °C (-40 to +165 °F)	

20 Ethernet Extenders

## Wolverine

**Ethernet Extenders** 

₩ <sub>eos</sub> VWolverine	
Product/Art. no	Description
DDW-142-485 3642-0310	Industrial Ethernet Extender  2 × 10/100 Mbit/s, Ethernet TX, RJ-45  2 × 32 kbit/s to 15.3 Mbit/s (30.4 with bonding), SHDSL, 2-position detachable screw terminal  1 × 50 bit/s to 2Mbit/s, RS-422/485, 4-position detachable screw terminal  1 × Digital I/O, 4-position detachable screw terminal  1 × USB  1 × 2.5 mm jack, console  Operating voltage: 19-60 VDC  Operating temperature: -40 to +70 °C (-40 to +158 °F)
DDW-225 3642-0250 DDW-225-EX	Redundant Ring Ethernet Extender 4 × 10/100 Mbit/s, Ethernet TX, RJ-45 2 × 32 kbit/s to 15.3 Mbit/s, SHDSL, 2-position detachable screw terminal 1 × Digital I/O, 4-position detachable screw terminal 1 × USB
3642-5250	1 x 2.5 mm jack, console Operating voltage: 16-60 VDC Operating temperature: -40 to +70 °C (-40 to +158 °F)
DDW-226 3642-0240	Ethernet Extender with Serial Support 4 × 10/100 Mbit/s, Ethernet TX, RJ-45 1 × 300 bit/s to 115.2 kbit/s, RS-232, 9-pin D-sub (male) 2 × 32 kbit/s to 15.3 Mbit/s, SHDSL 2-position detachable screw terminal
DDW-226-EX 3642-5240	1 x Digital I/O, 4-position detachable screw terminal 1 x USB 1 x 2.5 mm jack, console Operating voltage: 16-60 VDC Operating temperature: -40 to +70 °C (-40 to +158 °F)
DDW-242 3642-0320	Advanced Industrial Ethernet Extender  2 × 10/100 Mbit/s, Ethernet TX, RJ-45  2 × 32 kbit/s to 15.3 Mbit/s (30.4 with bonding), SHDSL, 2-position detachable screw terminal  1 × 300 bit/s to 115.2 kbit/s, RS-232, RJ-45  1 × Digital I/O, 4-position detachable screw terminal  1 × USB  Operating voltage: 19-60 VDC  Operating temperature: -40 to +70 °C (-40 to +158 °F)
DDW-242-12VDC 3642-0420	Advanced Industrial Ethernet Extender  2 × 10/100 Mbit/s, Ethernet TX, RJ-45  2 × 32 kbit/s to 15.3 Mbit/s (30.4 with bonding), SHDSL, 2-position detachable screw terminal  1 × 300 bit/s to 115.2 kbit/s, RS-232, RJ-45  1 × Digital I/O, 4-position detachable screw terminal  1 × USB  Operating voltage: 9.8-60 VDC  Operating temperature: -40 to +74 °C (-40 to +165 °F)
DDW-242-485 3642-0330	Advanced Industrial Ethernet Extender  2 × 10/100 Mbit/s, Ethernet TX, RJ-45  2 × 32 kbit/s to 15.3 Mbit/s (30.4 with bonding), SHDSL, 2-position detachable screw terminal  1 × 50 bit/s to 2 Mbit/s, RS-422/485, 4-position detachable screw terminal  1 × Digital I/O, 4-position detachable screw terminal  1 × USB  Operating voltage: 19-60 VDC  Operating temperature: -40 to +70 °C (-40 to +158 °F)



- Mobile/Cellular/Wireless Routers
- Broadband DSL Routers
- EN 50155 WLAN Routers

## Multiple media solutions for accessing your remote networks

We provide a whole range of routers for use in demanding applications such as railways, water treatment, substation automation, roads and tunnels. We ensure connections to your remote sites are resilient and reliable offering remote access solutions using DSL broadband and wireless 4G technologies. As we know security is of paramount concern, all industrial routers include a powerful firewall to prevent unauthorised access.

## Mobile/Cellular/Wireless Routers

Product/Art. no	Description
MRD-305-DIN 3623-0030	Industrial M2M/3G Router GSM/GPRS/EDGE/3G/HSPA 2 × 10/100 Mbit/s, Ethernet TX, RJ-45 1 × SIM slot Operating voltage: 10-36 VDC Operating temperature: -40 to +70 °C (-40 to +158 °F)
MRD-405 3623-0501	Industrial 4G LTE Gateway/Router GPRS/3G/HSUPA/HSDPA4G LTE 2 × 10/100 Mbit/s, Ethernet TX, RJ-45 1 × SIM slot Operating voltage: 10-36 VDC Operating temperature: -40 to +70 °C (-40 to +158 °F)
MRD-315 3623-0050	Industrial 3G Router GSM/GPRS/EDGE/3G/HSPA 2 × 10/100 Mbit/s, Ethernet TX, RJ-45 1 × 300 bit/s to 115.2 kbit/s, RS-232, D-sub 1 × SIM slot Operating voltage: 10-60 VDC Operating temperature: -40 to +70 °C (-40 to +158 °F)
MRD-355 3623-0250	Industrial Mobile Broadband/3G Router GSM/GPRS/EDGE/3G/HSPA 2 × 10/100 Mbit/s, Ethernet TX, RJ-45 1 × 300 bit/s to 115.2 kbit/s, RS-232, D-sub 2 × SIM slot Operating voltage: 10-60 VDC Operating temperature: -40 to +70 °C (-40 to +158 °F)
MRD-455 3623-0401	Industrial Mobile Broadband/4G Router GSM/GPRS/EDGE/3G/HSPA/4G LTE 2 × 10/100 Mbit/s, Ethernet TX, RJ-45 1 × 300 bit/s to 115.2 kbit/s, RS-232, D-sub 2 × SIM slot Operating voltage: 10-60 VDC Operating temperature: -40 to +70 °C (-40 to +158 °F)

### Broadband DSL Routers

Product/Art. no	Description
BRD-355 3623-0311	Industrial ADSL/VDSL Router/Modem  ADSL/ADSL2/ADSL2+/VDSL2 router  2 × 10/100 Mbit/s, Ethernet TX, RJ-45  1 × 300 bit/s to 115.2 kbit/s, RS-232, DB-9  1 × ADSL, ADSL2/ASDL2+/VDSL2, RJ-11  Operating voltage: 10-48 VDC  Operating temperature: -25 to +70 °C (-13 to +158 °F)

Routers www.westermo.com

### EN 50155 WLAN Routers

Product/Art. no		Description
<b>RT-310</b> 3623-0710	0 000000	EN 50155 WLAN Access Point IEEE 802.11n 3x3 MIMO 2 x 10/100/1000 Mbit/s Ethernet TX, M12 X-code Operating voltage: 24 VDC or IEEE 802.3at (PoE) Operating temperature: -40 to +70 °C (-40 to +158 °F)
<b>RT-320</b> 3623-0720		EN 50155 WLAN Client/Bridge/Access Point IEEE 802.11n 3x3 MIMO 2 x 10/100/1000 Mbit/s Ethernet TX, M12 X-code Operating voltage: 24 VDC or IEEE 802.3at (PoE) Operating temperature: -40 to +70 °C (-40 to +158 °F)
<b>RT-370</b> 3623-0770		Trackside WLAN Access Point IEEE 802.11n 3x3 MIMO + monitoring antenna 1 x 10/100/1000 Mbit/s Ethernet TX, M12 X-code 1 x Gbit/s Ethernet FX, ODC connector Operating voltage: 100-240 VAC Operating temperature: -40 to +70 °C (-40 to +158 °F)



- Fibre Optic Modems
- ISDN Modems
- PSTN/Leased Line Modems
- Short Haul Modems
- Multidrop Modems

## Industrial data modems for the harshest environments

We have a solution for you, whether the need is to communicate through a PSTN or ISDN line, across a private wire or leased line, down a fibre optic cable, or even over GSM/GPRS. Our wide range of industrial modems is designed for use in such demanding applications as railways, water treatment, substation automation, roads and tunnels. All our modems exceed industrial standards and ensure robust and reliable communications.

## Fibre Optic Modems

RS-232/RS-485	
Product/Art. no	Description
ODW-720-F1 3651-0721	Point-to-Point Fibre Converter, RS-232  1 × Pluggable transceivers, SFP  1 × 300 bit/s to 250 kbit/s, RS-232, D-sub  1 × Detachable status screw terminal  Operating voltage: 10-60 VDC or 20-30 VAC  Operating temperature: -40 to +70 °C (-40 to +158 °F)
ODW-720-F2 3651-0722	Ring/Multidrop Fibre Converter, RS-232  2 × Pluggable transceivers, SFP  1 × 300 bit/s to 250 kbit/s, RS-232, D-sub  1 × Detachable status screw terminal Operating voltage: 10-60 VDC or 20-30 VAC Operating temperature: -40 to +60 °C (-40 to +140 °F)
ODW-730-F1 3651-0731	Point-to-Point Fibre Converter, RS-422/485  1 × Pluggable transceivers, SFP  1 × 300 bit/s to 1.5 Mbit/s, RS-422/485, D-sub  1 × Detachable status screw terminal Operating voltage: 10-60 VDC or 20-30 VAC Operating temperature: -40 to +70 °C (-40 to +158 °F)
ODW-730-F2 3651-0732	Ring/Multidrop Fibre Converter, RS-422/485  2 × Pluggable transceivers, SFP  1 × 300 bit/s to 1.5 Mbit/s RS-422/485, D-sub  1 × Detachable status screw terminal Operating voltage: 10-60 VDC or 20-30 VAC Operating temperature: -40 to +70 °C (-40 to +158 °F)

PROFIBUS	
Product/Art. no	Description
ODW-710-F1 3651-0711	Point-to-Point Fibre Converter, PROFIBUS  1 × Pluggable transceivers, SFP  1 × 9 600 bit/s to 12 Mbit/s, PROFIBUS DP (RS-485), D-sub  1 × Detachable status screw terminal  Operating voltage: 10-60 VDC or 20-30 VAC  Operating temperature: -40 to +70 °C (-40 to +158 °F)
ODW-710-F2 3651-0712	Ring/Multidrop Fibre Converter, PROFIBUS  2 × Pluggable transceivers, SFP  1 × 9 600 bit/s to 12 Mbit/s, PROFIBUS DP (RS-485), D-sub  1 × Detachable status screw terminal  Operating voltage: 10-60 VDC or 20-30 VAC  Operating temperature: -40 to +60 °C (-40 to +140 °F)

LonWorks®	
Product/Art. no	Description
LRW-102 PP 3650-xxxx	Fibre Optic LON Repeater for TP/FT-10, Point-to-Point 1 × pluggable transceivers, SFP 1 × 78.5 kbit/s, TP/FT-10, detachable screw terminal 1 × Detachable status screw terminal Operating voltage: 10-60 VDC or 20-30 VAC Operating temperature: -40 to +70 °C (-40 to +158 °F)
LRW-102 3650-xxxx	Fibre Optic LON Repeater for TP/FT-10, Multidrop and Redundant Ring 2 × pluggable transceivers, SFP 1 × 78.5 kbit/s, TP/FT-10, detachable screw terminal 1 × Detachable status screw terminal Operating voltage: 10-60 VDC or 20-30 VAC Operating temperature: -40 to +60 °C (-40 to +140 °F)

## ISDN Modems

Product/Art. no	Description
IDW-90 3620-0001	Industrial ISDN Modem  1 × 300 bit/s to 115.2 kbit/s, RS-232  1 × 300 bit/s to 115.2 kbit/s, RS-422/485  1 × 300 bit/s to 128.0 kbit/s, ISDN  1 × Digital I/O  Operating voltage: 10-60 VDC, 10-42 VAC  Operating temperature: +5 to +55 °C (+41 to +131 °F)

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## PSTN/Leased Line Modems

PSTN	PSTN	
Product/Art. no	Description	
TDW-33 3619-0001	Industrial Telephone Modem  1 × 300 bit/s to 115.2 kbit/s, RS-232  1 × 300 bit/s to 56.7 kbit/s, PSTN  Operating voltage: 10-60 VDC or 10-42 VAC  Operating temperature: -25 to +70 °C (-13 to +158 °F)	
TD-36 3618-xxxx	Industrial PSTN and Leased Line Modem  1 × 300 bit/s to 115.2 kbit/s, RS-232  1 × 300 bit/s to 33.6 kbit/s, Leased Line  1 × 300 bit/s to 33.6 kbit/s, PSTN  Operating voltage: AV: 18-300 VDC, 22-264 VAC, LV: 12-48 VDC,  12-27 VAC  Operating temperature: -25 to +70 °C (-13 to +158 °F)	
TD-36 485 3618-xxxx	Industrial backup PSTN and Leased Line Modem  1 × 300 bit/s to 115.2 kbit/s, RS-232  1 × 300 bit/s to 115.2 kbit/s, RS-422/485  1 × 300 bit/s to 33.6 kbit/s, Leased Line  1 × 300 bit/s to 33.6 kbit/s, PSTN  Operating voltage: AV: 18-300 VDC, 22-264 VAC, LV: 12-48 VDC,  12-27 VAC  Operating temperature: -25 to +70 °C (-13 to +158 °F)	

Leased Line		
Product/Art. no	Description	
TD-23 3600-xxxx	Multidrop Modem  1 × 300 bit/s to 115.2 kbit/s, RS-232  1 × 300 bit/s to 115.2 kbit/s, RS-422/485  1 × 300 bit/s to 1200 bit/s, Leased Line  1 × Detachable screw terminal, Relay (optional).  Operating voltage: LV: 10-60 VDC 10-30 VAC, HV: 48-300 VDC, 85.5-264 VAC  Operating temperature: -25 to +70 °C (-13 to +158 °F)	

## Short Haul Modems

RS-232, point-to-point	
Product/Art. no	Description
MD-12 3150-xxx	Short-Haul Modem, Point-to-Point 1 × Up to 38.4 kbit/s, RS-232, D-sub 1 × Up to 38.4 kbit/s, RS-232, detachable screw terminal 1 × ±10 mA balanced current loop, detachable screw terminal, Line connection Operating voltage: 12-36 VDC Operating temperature: +5 to +50 °C (+41 to +122 °F) -40 to +70 °C (-40 to +158 °F)

## Multidrop Modems

RS-232, multidrop		
Product/Art. no	Description	
LD-02 3156-0001	Line Sharing Modem  1 × D-sub, up to 38.4 kbit/s, RS-232  1 × Up to 38.4 kbit/s, RS-232, detachable screw terminal  1 × Up to 38.4 kbit/s, RS-422/485, detachable screw terminal  1 × ±10 mA balanced current loop, detachable screw terminal, line connection  Operating voltage: 12-36 VDC  Operating temperature: +5 to +50 °C (+41 to +122 °F)	

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- Serial Converters/Repeaters
- Current Loop Converters
- Ethernet Media Converters
- Protocol Converters

## Industrial converters for industrial protocols

Our range of converters and repeaters suits a whole host of industrial protocols and communication methods, including Ethernet, RS-232, RS-422, RS-485, PROFIBUS DP, M-Bus and 20 mA current loop. We have a solution which will operate in the harshest industrial environments and provide robust, reliable communications for peace of mind, whether a fibre media converter for an Ethernet link, a serial converter, or a repeater for an RS-485 network is needed.

## Serial Converters/Repeaters

Product/Art. no	Description
EDW-100 3616-0020 EDW-100 EX 3616-5020	Serial Adapter 1 × 10/100 Mbit/s, Ethernet TX, RJ-45 1 × 300 bit/s to 115.2 kbit/s, RS-232, D-sub 1 × 300 bit/s to 115.2 kbit/s, RS-422/485, detachable screw terminal Operating voltage: 10-60 VDC Operating temperature: -25 to +70 °C (-13 to +158 °F)
EDW-120 3616-0010 EDW-120 EX 3616-5010	Serial Adapter 1 × 10/100 Mbit/s, Ethernet TX, RJ-45 2 × 300 bit/s to 115.2 kbit/s, RS-232, D-sub Operating voltage: 10-60 VDC Operating temperature: -25 to +70 °C (-13 to +158 °F)
RD-48 3153-xxx	RS-422/485 Repeater 2 × 300 bit/s to 1.5 Mbit/s, RS-422/485 detachable screw terminal Operating voltage: LV: 9.6-57.6 VDC HV: 85.5-264 VAC or 88-300 VDC Operating temperature: -40 to +70 °C (-40 to 158 °F)
MDW-45 3617-0xxx	RS-422/485 Converter 1 × 300 bit/s to 115.2 kbit/s, RS-232, D-sub 1 × 300 bit/s to 115.2 kbit/s, RS-422/485, detachable screw terminal Operating voltage: LV: 9.6-57.6 VDC, HV: 85.5-264 VAC or 88-300 VDC Operating temperature: -40 to +70 °C (-40 to 158 °F)

## Current Loop Converters

Product/Art. no	Description
MD-21 3151-xxxx	20 mA Current loop converter  1 x Up to 19.2 kbit/s, RS-232, D-sub or detachable screw terminal  1 x Up to 19.2 kbit/s, 20 mA current loop, detachable screw terminal  Operating voltage: AC: 207-264 VAC, 103-132 VAC,  DC: 12-36 VDC, 36-55 VDC  Operating temperature: +5 to +50 °C (+41 to 122 °F)

### Ethernet Media Converters

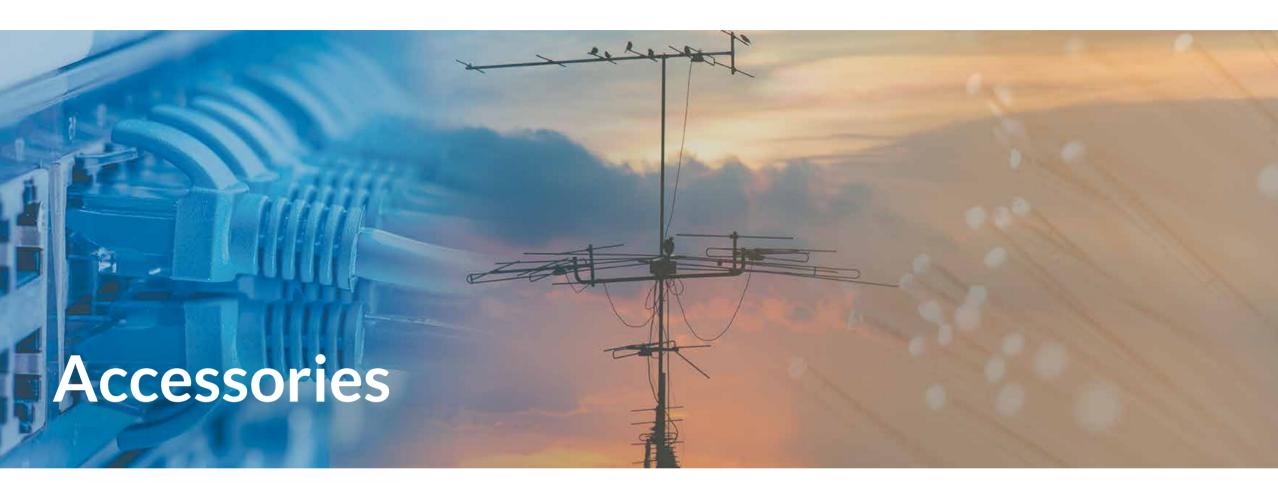
Product/Art. no		Description
MCW-211 3645-0xxx		Industrial Ethernet Media Converter 1 × 10/100 Mbit/s, Ethernet TX 1 × 100 Mbit/s, Ethernet FX Operating voltage: 10-60 VDC Operating temperature: -25 to +70 °C (-10 to +158 °F)
MCW-211-F1G-T1G 3645-2001	3	Industrial Ethernet Gigabit Media Converter 1 × 100/1000 Mbit/s, Ethernet TX, RJ-45 1 × 100/1000 Mbit/s, Ethernet FX, SFP Operating voltage: 9.6-57.6 VDC Operating temperature: -40 to +74 °C (-40 to +165 °F)

i-line		
Product/Art. no		Description
MCI-211G 3624-0001		Gigabit Ethernet Media Converter 1 × 10/100/1000 Mbit/s, Ethernet TX, RJ-45 1 × 1000 Mbit/s, pluggable transceivers, SFP Operating voltage: 12-48 VDC Operating temperature: -25 to +70 °C (-13 to +158 °F)
MCI-422-MM-SC2 3624-0100		2-channel Ethernet to Fibre Media Converter 2 × 10/100 Mbit/s, Ethernet TX, RJ-45 2 × 100 Mbit/s fibre port, multi-mode 2 km, SC connector Operating voltage: 10-60 VDC Operating temperature: -25 to +75 °C (-13 to +167 °F)
MCI-422-SM-SC30 3624-0110		2-channel Ethernet to Fibre Media Converter 2 × 10/100 Mbit/s, Ethernet TX, RJ-45 2 × 100 Mbit/s fibre port, single-mode 30 km, SC connector Operating voltage: 10-60 VDC Operating temperature: -25 to +75 °C (-13 to +167 °F)

## Protocol Converters

M-Bus Converter		
<b>AD-01</b> 3612-0001		M-Bus adapter  1 × Up to 9600 bit/s, RS-232, D-sub or detachable screw terminals  2 × Up to 9600 bit/s, RS-232, detachable screw terminals  2 × Up to 9600 bit/s, detachable screw terminals, M-Bus slave  Operating voltage: 207-253 VAC  Operating temperature: 0 to +50 °C (+32 to +122 °F)

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- Optical Transceivers
- Power Supplies/Adapters
- Backup Device
- Factory Reset Plug
- Cables and Antennas

## Applying the finishing touches to your industrial application

As well as industrial data communications devices, Westermo can also supply a range of vital accessories to provide a complete a solution. Whether the application requires an industrial rated power supply, optical transceivers for use with our many fibre optic devices, or cables and antennas for a wireless application, Westermo has it covered.

### Optical Transceivers

Westermo offers a wide selection of Small Form Pluggable (SFP) transceivers. The selection of transceivers is available in a variety of models offering transmission rages from 2 km to 120 km (1.2 mi to 75 mi) over fibre. The CX transceiver allows SFP ports to be used to connect an Ethernet RJ-45 cable. Contact Westermo for detailed information.

Product	Description
Single Mode Transceivers	Single Mode Transceivers are available in a variety of models. Transmission capacity from 100 Mbit to 1 Gbit and distances from 15 to 120 km (9.3 to 74.6 mi).
Multi Mode Transceivers	Multi Mode Transceivers are available in a variety of models.  Transmission capacity from 100 Mbit to 1 Gbit and distances from 550 m to 60 km (1805 ft to 37.3 mi).
Bi-directional Transceivers	Bi-Di Transceivers are available in a variety of models. 100 Mbit transmission capacity and distances from 2 km to 60 km. (1.24 mi to 37.3 mi).
CX Transceiver	CX transceivers link an SFP port to a copper-based network, using a standard RJ-45 connection 1 Gbit transmission capacity and 100 m (328 ft) distance.

### Power Supplies/Adapters

Westermo provides a set of industrially approved power supplies complying with many mayor safety approvals. The most common power supplies, PS-30 and PS-100, come in a DIN-mounted housing and can operate in a extended temperature range.

Product/Art. no		Description
<b>PS-30</b> 3125-0001	Community of the state of the s	Power supply, DIN-rail Output: DC 24-28V/30 W PSU Input: 85-264 VAC, 85-375 VDC
<b>PS-100/48</b> 3125-0050	Commence Com	Power supply DIN-rail, PoE Ready PSU Output voltage: 48-56 VDC *preset to: 48 V ± 0.5% @ 2.1 A Input: AC 100-120/220-240 V (Auto Select), 47-63 Hz (AC 85-132 V/AC 184-264 V, DC 220-375 V)

### Backup Device

The USB-M12 is a configuration backup device designed to meet the full requirements of the rail vehicle market.

This device can be used with the Viper 212, Viper 112 and RFR-12-FB, and allows the configuration of the switch to be saved. The device can then be left attached to the switch for easy maintenance exchange of units. Alternatively, the device allows configurations to be updated by simply plugging it in to the unit and repowering.

Product/Art. no	Description	
<b>USB M12 plug IP67</b> 3641-0190	Electrical specification: USB Data rate: Up to 480Mbit/s Connection: M12 A-coded Memory size: 16 Mbyte.	

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#### Cables

Special cables for reading diagnostics, antennas, radio, fibre and Ethernet are available in a variety of lengths and jacketing options. Please contact Westermo for further information.

Product/Art. no	Description
Diagnostic cable 1211-2027	Cable for diagnostic DDW-120 and RedFox console port to USB
M12 cables	M12 - M12 In length, 1 m, 5 m and 15 m (3.28 ft, 16.4 ft and 49.2 ft)
M12-RJ45 cables	M12 - RJ-45 In length, 1 m, 5 m and 15 m (3.28 ft, 16.4 ft and 49.2 ft)
Power cables	M12 In length, 1.5 m and 5 m (4.92 ft and 16.4 ft)
Radio cables RG213	Cables for antennas In length, 3 m, 5 m, 7 m, 10 m and 15 m (9.84 ft, 16.4 ft, 23 ft, 32.8 ft and 49.2 ft)



## Westermo quality and approvals

Westermo designs and manufactures robust data communication devices for harsh environments. We supply products that provide the communication infrastructure for control and monitoring systems, derived from proven commercial technology. These products are used in mission critical solutions, where commercial grade products are not sufficiently resilient.

To ensure the highest quality products, Westermo has a state-ofthe-art industrial electronics manufacturing facility in Sweden. To maximise the reliability of the product, testing is carried out at many stages of the manufacturing process.

- ₩ Manufacturing to IPC-A-610 under ISO9001-2008 QMS
- Solder Paste Inspection and Automated Optical Inspection

- **Burn-in testing to EN 50155**

















EN 61000-6-1

EN 61000-6-2 EN 61000-6-3 EN 61000-6-4 EN 50121-4

**Accessories Approvals** 



## WeOS

## - Westermo Operating System

Westermo delivers resilient network solutions through its WeOS operating system, which is at the heart of our range of robust hardware platforms.

WeOS provides an extensive suite of IP networking standards allowing resilient and flexible networks to be created. Fast recovery times and highly reliable solutions can be achieved even in very complex networks. WeOS also provides multiple layers of security to provide protection against cyber-attacks at the network edge.

#### Simple and flexible configuration

Made Easy is at the core of the WeOS development, which is why we ensure our intuitive command-line interface is logical and our web interface is simple to use.

#### Download the latest version of WeOS at www.westermo.com





## WeConnect - Secure remote access

WeConnect is a networking tool that enables secure remote connections to the network edge. Strong encryption techniques make it possible to remotely access any device on the network using a PC, smartphone or tablet. This allows the network to be managed from anywhere in the world, resulting in significant time and cost savings.

#### Easy set up

WeConnect works with any type of internet connection and there are no limits to the type of media used including ADSL, VDSL2, fibre, cellular or even satellite. WeOS products connect to WeConnect automatically and there is no need for public IP-addresses or special SIM cards.

Reliable connectivity

WeConnect is a very scalable and multi-resilient solution, designed to provide individual secure networks completely isolated from each other. WeConnect is therefore not a multi-tenant solution, removing the possibility of data leakage or restrictions on IP-addresses.

Contact Westermo to find out more.

- Secure remote access to the network edge
- All that is needed is a connection to the internet
- Designed to solve common industrial networking problems
- Reliable connectivity when needed



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