

Product Guide

Industrial Data Communications 2016







Industrial Data Communications Heritage

Produced by:

Westermo Teleindustri AB

Photo:

IStockphoto. BildN, Västerås, Sweden Illustrations

Visual Information Sweden AB Eskilstuna, Sweden

Specifications are subject to change without notice due to continuous product development and improvement.

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.

Westermo offers the highest levels of service to help 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







Contents

Ethernet Switches	4 - 15	
Ethernet Extenders	16 - 19	
Routers	20 - 24	
Modems	26 - 31	
Converters	32 - 35	
Accessories	36 - 40	

Ethernet Switches

- ******* Managed Switches
- **Unmanaged Switches**
- ******* Managed PoE Ethernet Switches
- **III** Unmanaged PoE Ethernet Switches

The Westermo range of industrial Ethernet switches is designed for use in harsh environments and allows the creation of costeffective, reliable and secure networks.

Our extensive knowledge of the various standards used in railway, defence, water treatment, substation automation and road applications means we have the ideal solution for our customers, regardless of the environment.



Managed Ethernet Switches

WLynx		
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 × 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 x 10/100 Mbit/s, Ethernet TX, RJ-45 2 x 100/1000 Mbit/s, pluggable connections transceivers supported, Ethernet FX or TX, SFP 1 x Digital I/O 1 x USB 1 x 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 × RS-232, RJ-45 1 × RS-232 or 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 × RS-232, RJ-45 1 × RS-232 or 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)	



L205-S1 3643-0215

L205-S1-FX 3643-5215



Description

Managed Device Server Switch with Routing Functionality

 $4 \times 10/100$ Mbit/s, Ethernet TX, RJ-45

1 x Digital I/O

1 x RS-232, RI-45

 $1 \times USB$

 1×2.5 mm jack, console

Operating voltage: 19-60 VDC

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

L206-F2G 3643-0235

L206-F2G-EX 3643-5235



Managed Ethernet Switch with Routing Functionality

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

2 x 100/1000 Mbit/s, pluggable connections transceivers supported, Ethernet FX or TX. SFP

1 x Digital I/O

1 x USB

1 x 2.5 mm jack, console

Operating voltage: 19-60 VDC

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

L206-S2 3643-0225

L206-S2-EX 3643-5225



Managed Device Server Switch with Routing Functionality

 $4 \times 10/100$ Mbit/s, Ethernet TX, RJ-45

1 x Digital I/O

1 x RS-232, RJ-45

1 x RS-232 or 422/485, RJ-45

1 x USB

1 x 2.5 mm jack, console

Operating voltage: 19-60 VDC

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

L208-F2G-S2 3643-0205

L208-F2G-S2-FX 3643-5205



Managed Device Server Switch with Routing Functionality

 $4 \times 10/100$ Mbit/s, Ethernet TX, RJ-45

2 x 100/1000 Mbit/s, pluggable connections transceivers supported, Ethernet FX or TX. SFP

1 x Digital I/O

1 x RS-232, RJ-45 1 x RS-232 or 422/485, RJ-45

1 x USB

 1×2.5 mm jack, console

Operating voltage: 19-60 VDC

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

L210-F2G 3643-0105

L210-F2G-EX 3643-5105



Managed Ethernet Switch with Routing Functionality

 $8 \times 10/100$ Mbit/s, Ethernet TX, RJ-45

2 x 100/1000 Mbit/s, pluggable connections transceivers supported, Ethernet FX or TX. SFP

1 x Digital I/O

 1×2.5 mm jack, console

Operating voltage: 19-60 VDC

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



RFI-111-F4G-T7G 3641-4315



Description

Industrial Routing Switch

 $7 \times 10/100/1000$ Mbit/s, Gigabit Ethernet TX, RJ-45

4 x 100/1000 Mbit/s, pluggable connections transceivers supported, Ethernet FX or TX, SFP

1 x Digital I/O

1 x Micro USB, console

1 × USB

Operating voltage: 16-60 VDC

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

RFI-119-F4G-T7G 3641-4305



Industrial Routing Switch

 $7 \times 10/100/1000$ Mbit/s, Ethernet TX, RJ-45

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

4 x 100/1000 Mbit/s, pluggable connections transceivers supported, Ethernet FX or TX, SFP

1 x Digital I/O

1 x 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 x 10/100/1000 Mbit/s, Ethernet TX, RJ-45

 $4 \times 100/1000$ Mbit/s, pluggable connections transceivers supported, Ethernet FX or TX, SFP

1 x Digital I/O

1 x Micro USB, console

1 x 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 x 10/100/1000 Mbit/s, Ethernet TX, RJ-45

 $8 \times 10/100$ Mbit/s, Ethernet TX, RJ-45

1 x Digital I/O

1 x Micro USB, console

1 x 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

 $7 \times 10/100/1000$ Mbit/s, Gigabit Ethernet TX, RJ-45

4 × 100/1000 Mbit/s, pluggable connections transceivers supported, Ethernet FX or TX, SFP

1 x Digital I/O

1 x Micro USB, console

1 x USB

Operating voltage: 16-60 VDC

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



RFI-215-F4G-T3G 3641-4200

RFI-215-F4G-T3G-FX 3641-5200



Description

Industrial Routing Switch

- 3 x 10/100/1000 Mbit/s, Ethernet TX, RI-45
- 8 x 10/100 Mbit/s, Fthernet TX, RI-45
- $4 \times 100/1000$ Mbit/s, pluggable connections transceivers supported, Ethernet FX or TX, SFP
- 1 x Digital I/O
- 1 x 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

- $3 \times 10/100/1000$ Mbit/s, Ethernet TX, RJ-45
- 16 x 10/100 Mbit/s. Ethernet TX, RI-45
- 1 x Digital I/O
- 1 x Micro USB, console
- 1 x 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 x 10/100 Mbit/s, Ethernet TX, RJ-45
- $7 \times 10/100/1000$ Mbit/s, Gigabit Ethernet TX, RJ-45
- $4 \times 100/1000$ Mbit/s, pluggable connections transceivers supported, Ethernet FX or TX, SFP
- 1 x Digital I/O
- 1 x Micro USB, console
- $1 \times USB$

Operating voltage: 16-60 VDC

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

RFI-219-F4G-T7G-F8 3641-4320

3641-5320



Industrial Routing Switch

- $7 \times 10/100/1000$ Mbit/s, Gigabit Ethernet TX, RJ-45
- $4 \times 100/1000$ Mbit/s, pluggable connections transceivers supported, Ethernet FX or TX, SFP
- 8 x 100 Mbit/s, pluggable connections transceivers supported, Ethernet FX or TX, SFP
- 1 x Digital I/O
- 1 x Micro USB, console
- 1 x USB

Operating voltage: 16-60 VDC

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



Due duet/Aut no	Description
Product/Art. no	Description
RFIR-127-F4G-T7G-AC 3641-4030 RFIR-127-F4G-T7G-DC 3641-4020	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)
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	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 Operating temperature: -40 to +55 °C (-40 to +131 °F)
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: 16-60 VDC Operating temperature: -40 to +70 °C (-40 to +158 °F)
RFR-212-FB 3641-1640	EN50155 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)



Viper-408 3641-0360



Description

EN50155 M12 Switch

 $8 \times 10/100$ Mbit/s, Ethernet TX, M12 Operating voltage: 16.8-143 VDC

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

Viper-408 with E-mark 3641-6360



EN50155 M12 Switch

8 x 10/100 Mbit/s, Ethernet TX, M12 Operating voltage: 16.8-143 VDC

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





Product/Art. no

Viper-112 3641-0555



Description

EN50155 Switch

12 x 10/100 Mbit/s, Ethernet TX, M12

1 x USB

1 x console port, RS-232

Operating voltage: 16.8-143 VDC

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

Viper-112-T3G 3641-0530



EN50155 GigE Switch

9 x 10/100 Mbit/s, Ethernet TX, M12 3 x 10/100/1000 Mbit/s, Ethernet TX, M12

1 x USB

1 x console port, RS-232

Operating voltage: 16.8-143 VDC

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

Viper-212 3641-0560



EN50155 Routing Switch

12 x 10/100 Mbit/s, Ethernet TX, M12

1 x USB

1 x console port, RS-232

Operating voltage: 16.8-143 VDC

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

Viper-212-T3G 3641-0550



EN50155 GigE Routing Switch

9 x 10/100 Mbit/s, Ethernet TX, M12

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

1 x USB

1 x console port, RS-232

Operating voltage: 16.8-143 VDC

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

Unmanaged Ethernet Switches

Product/Art. no Description SDW-500-series Industrial Ethernet 5-port Switch 3644-xxxx SDW-532 $3 \times 10/100$ Mbit/s, Ethernet TX, RJ-45 2 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 $4 \times 10/100$ 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 x 10/100/1000 Mbit/s, Ethernet TX, RJ-45 1 x 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 $5 \times 10/100$ 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 x 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
Viper-008 3641-0340		EN50155 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)
Viper-012 3641-0540		EN50155 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)
SDI-550 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 24V 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 24V carry ability Operating voltage: 10-60 VDC Operating temperature: -10 to +70 °C (+14 to +158 °F)
SDI-880 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 24V carry ability Operating voltage: 10-60 VDC Operating temperature: -25 to +70 °C (-13 to +158 °F)

Managed PoE Ethernet Switches



Unmanaged PoE Ethernet Switches

i-line		
Product/Art. no.		Description
PII-2G 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)
PSI-660G 3626-0100	.0.	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)
PSI-1010G-24V 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)
PSI-1010G-48V 3626-0150		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)

Ethernet Extenders

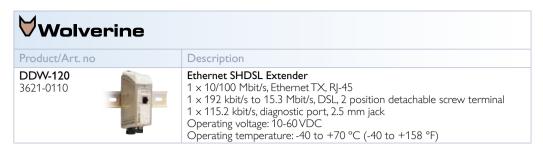
- **■** Point-to-Point
- ******* Managed Network

The Westermo 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

Wolverine		
Product/Art. no	Description	
DDW-220 3642-0200	Industrial Ethernet Extender 4 × 10/100 Mbit/s, Ethernet TX, RJ-45 2 × 192 kbit/s to 5.7 Mbit/s, DSL, 2-position detachable screw terminal Operating voltage: 16-60 VDC Operating temperature: -40 to +70 °C (-40 to +158 °F)	
DDW-222 3642-0220	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 × 192 kbit/s to 5.7 Mbit/s, DSL, 2-position detachable screw terminal Operating voltage: 16-60 VDC Operating temperature: -40 to +70 °C (-40 to +158 °F)	

18 Ethernet Extenders



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-142-485 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 3642-5250	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 1 × 2.5 mm jack, console Operating voltage: 16-60 VDC Operating temperature: -40 to +70 °C (-40 to +158 °F)
DDW-226 3642-0240 DDW-226-EX 3642-5240	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 1 × Digital I/O, 4-position detachable screw terminal 1 × USB 1 × 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 × 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-242-485 3642-0330	Advanced Industrial Ethernet Extender 2 × 10/100 Mbit/s, Ethernet TX, RJ-45 2 × 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

Ethernet Extenders 19

Operating voltage: 19-60 VDC
Operating temperature: -40 to +70 °C (-40 to +158 °F)

Routers

- **Serial/PSTN Routers**
- **Wireless Routers**
- **III** Broadband DSL Routers

Westermo provides a whole range of routers for use in demanding applications such as railways, water treatment, substation automation, roads and tunnels. We ensure connections to our customers remote sites are resilient and reliable offering remote access solutions using ADSL or VDSL broadband and wireless 3G (UMTS, HSDPA, HSUPA) or GPRS technologies.



Multiple media solutions for accessing remote networks



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 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)
MR-210 3622-0201	Mobile Broadband Router 1 × 10/100 Mbit/s., Ethernet TX, RJ-45 1 × 300 bit/s to 115.2 kbit/s, RS-232, D-sub 2 × SIM slots 1 × USB Operating voltage: 9-48 VDC Operating temperature: -20 to +55 °C (-4 to +131 °F)
MR-260 3622-0202	Mobile Broadband Router 1 × 10/100 Mbit/s, Ethernet TX, RJ-45 1 × 300 bit/s to 115.2 kbit/s, RS-232, D-sub 2 × SIM slots 1 × USB Operating voltage: 9-48 VDC Operating temperature: -20 to +55 °C (-4 to +131 °F)
MR-270 3622-0205	Mobile broadband router 4 × 10/100 Mbit/s, Ethernet TX, RJ-45 1 × 300 bit/s to 115.2 kbit/s, RS-232, D-sub 2 × SIM slots 1 × USB Operating voltage: 11-58 VDC Operating temperature: 0 to +55 °C (+32 to +131 °F)

22 Routers

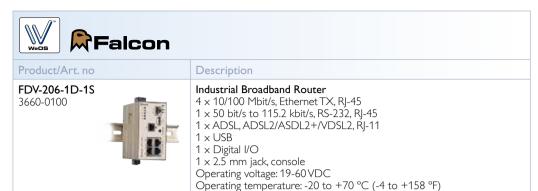
Broadband DSL Routers

3622-0350

3622-0355

4200-3006

4200-3010



Product/Art. no		Description	
ADSL-350 3623-0301		Industrial ADSL 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+, RJ-11 Operating voltage: 10-60 VDC Operating temperature: -25 to +70 °C (-13 to +158 °F)	
Product/Art. no		Description	
DR-270 3622-xxxx		Multiple media ADSL/VDSL2 router 4 × 10/100 Mbit/s, Ethernet TX, RJ-45 1 × 300 bit/s to 115.2 kbit/s, RS-232, DB-9 1 × ADSL/ADSL2/ADSL2+/ADSL2++/VDSL2, RJ-11 2 × SIM 1 × USB Operating voltage: 9-36 VDC Operating temperature: DR-270, DR-270 + 3G: -40 to +75 °C (-40 to +167 °F) DR-270 + WiFi, DR-270 + WiFi + 3G; -20 to +75 °C (-4 to +167 °F)	
3622-0310	Multiple media ADSL/VDSL2 router DR-270A Multiple media ADSL/VDSL2 router DR-270A + WiFi Multiple media ADSL/VDSL2 router DR-270A + 3G		
3622-0315			
3622-0320			
3622-0325 Multiple media ADSL/VDSL2 router DR-270A + 3G + WiFi		DSL/VDSL2 router DR-270A + 3G + WiFi	
3622-0340	Multiple media ADSL/VDSL2 router DR-270B		
3622-0345	Multiple media AD	Multiple media ADSL/VDSL2 router DR-270B + WiFi	

Multiple media ADSL/VDSL2 router DR-270B + 3G

Multiple media ADSL/VDSL2 router DR-270B + 3G + WiFi

Optional VPN tunnel extension upgrade; additional 50 tunnels

Optional VPN tunnel extension upgrade; additional 100 tunnels

Routers 23

Serial/PSTN Routers

Product/Art. no	Description
ED-200 3609-5010	Ethernet Router 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) 1 × 300 bit/s to 115.2 kbit/s, RS-422/485 4-position detachable screw terminal Operating voltage: 10-60 VDC Operating temperature: -25 to +65 °C (-13 to +149 °F)
ED-210 3609-5001	Ethernet Router 4 × 10 Mbit/s, 100 Mbit/s, Ethernet TX, RJ-45 1 × 600 bit/s to 33.6 kbit/s, 2 position detachable screw terminal, Leased Line 1 × 600 bit/s to 33.6 kbit/s, PSTN, RJ-11C Operating voltage: 10-60 VDC Operating temperature: -25 to +65 °C (-13 to +149 °F)

24 Routers



Westermo Delivers Robust Industrial Networks

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.

Robustness

Westermo hardware is designed and externally verified to work in the harshest industrial environments over a long service life.

Cyber Security

With virtually every network today somehow connected to the Internet, WeOS can deliver firewall functionality to every port on the network.

Resilience

Westermo networks are mission critical and designed to operate even when there are media or power failures on parts of the system.

Multimedia Support

Fibre, UTP, RS-232, RS-485, VDSL2, ADSL and any twisted pair cable are all supported within the WeOS family of products.

Network Application Support

Industrial protocols come in many different formats; however, Westermo's expertise and WeOS legacy serial support allows simple migration to IP technology.

Production Quality

All WeOS products are manufactured at our own facility in Sweden to the highest quality standards.



Visit our website for more information www.westermo.com

www.westermo.com 25

Modems

- ## Fibre Optic Modems
- **III** GSM/GPRS Modems
- **ISDN** Modems
- **!!!** Leased Line/PSTN Modems
- **Short Haul Modems**
- **##** Multidrop Modems

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, Westermo has a solution.

Our wide range of industrial modems is designed for use in such demanding applications as railways, water treatment, substation automation, roads and tunnels. All Westermo 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)

	1 0 1
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)

PSTN/Leased Line Modems

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-xxx	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: 18-300VDC, 22-264VAC, LV: 12-48VDC, 12-27 VAC Operating temperature: -25 to +70 °C (-13 to +158 °F)	
TD-36 485 3618-xxx	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: 18-300VDC, 22-264 VAC, LV: 12-48 VDC, 12-27 VAC	
	Operating temperature: -25 to +70 °C (-13 to +158 °F)	
TR-36B 3614-0510	Industrial Rack Modem Connected to rack RV-07B, see below Operating voltage: 10-60 VDC Operating temperature: -40 to +70 °C (-40 to +158 °F)	
RV-07B 3130-3010	19" Rack for TR-36B Telephone 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 1 × Alarm Output Up to 16 × TR-36B's and 2 × PSU Operating voltage: LV:10-60VDC 10-30VAC, HV:48-300VDC, 90-254VAC Operating temperature: -40 to +70 °C (-40 to +158 °F)	

Leased Line	
Product/Art. no	Description
3600-xxx	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:10-60VDC 10-30VAC, HV:48-300VDC, 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 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-xxx	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: 12-36VDC or 36-55VDC or 207-264VAC or 103-132VAC Operating temperature: +5 to +50 °C (+41 to +122 °F)	

Converters

- **Serial Converters/Repeaters**
- **:::** Current Loop Converters
- **Ethernet Media Converters**
- **■** Protocol Converters

Westermo can supply a range of converters and repeaters to suit 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.

Whether a fibre media converter for an Ethernet link, a serial converter, or a repeater for an RS-485 network is needed, rest assured that Westermo has a solution which will operate in the harshest industrial environments and provide robust, reliable communications for peace of mind.

Industrial converters for industrial protocols



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	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-xxx	20 mA Current loop converter 1 × Up to 19.2 kbit/s, RS-232, D-sub or detachable screw terminal 1 × 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)

34 Converters

Ethernet Media Converters

Product/Art. no	Description
MCW-211 3645-0xx	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	Industrial Ethernet Gigabit Media Converter 1 × 100/1000 Mbit/s, Ethernet TX, RJ-45 1 × 100/1000 Mbit/s, Ethernet FX, SFP Operating voltage: 10-57 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	
AD-01 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)

Converters 35

Accessories

- Optical Transceivers
- **...** Power Supplies
- **...** Cables and Antennas

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.

Applying the final touch to industrial applications



Transceivers

Westermo offer a wide selection of Small Form Pluggable (SFP) transceivers. The selection of transceivers are available in a variety of models and lengths offering transmission rages from 2 km to 120 km (1.2 mi to 74.5 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 (9.6 to 74.5 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 37.5 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. (1.25 mi to 37.2 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.

38 Accessories

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
PS-20 HV 3120-3101	S Interest	Power supply for RV-07B Rated voltage: 100-240 VAC Operating voltage: 90-254 VAC
PS-30 3125-0001	Commun	Power supply, DIN-rail Output: DC 24-28V/30 W PSU Input: 85-264 VAC, 85-375 VDC
PS-100/48 3125-0050	Common Co	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
USB M12 plug IP65 3641-0190	Electrical specification: USB v1.1 Data rate: Up to 480Mbit/s Connection: M12 A-coded male Memory size: 16 Mbyte.

Accessories 39

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 1211-2026	Cable for diagnostic DDW-100 DDW-100 to RS-232
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, 16.40 ft and 4921 ft)
M12-RJ45 cables	M12 - RJ-45 In length, 1 m, 5 m and 15 m (3.28 ft, 16.40 ft and 4921 ft)
Power cables	M12 In length, 1.5 m and 5 m (4.92 ft and 16.40 ft)
Radio cables RG213	Cables for antennas In length, 3 m, 5 m, 7 m, 10 m and 15 m (984 ft, 22.96 ft, 16.40 ft, 32.80 ft and 4921 ft)

40 Accessories



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-of-theart 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
- **Ⅲ** X-ray examination and PCB testing
- **Ⅲ** Functional testing
- **Burn-in testing to EN50155**























EN 61000-6-1

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

EN 50121-4

EN 50155

EN 55022

EN 55024

Approvals 41



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 for free at www.westermo.com

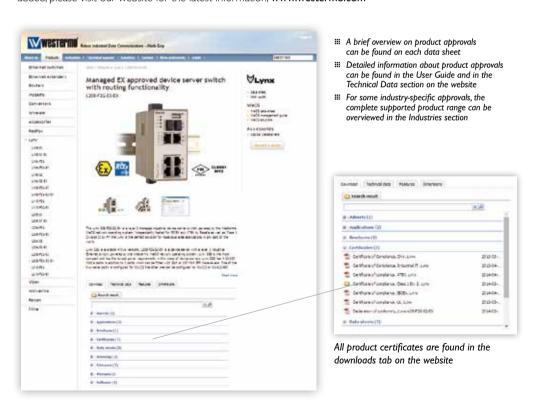


42 Approvals



Visit Our Website for the Latest Information on Approvals

We are constantly working to certify our products for use in various industrial environments. New approvals and certifications are continuously added, please visit our website for the latest information, www.westermo.com





HEAD OFFICE

Sweden

Westermo SE-640 40 Stora Sundby Tel: +46 (0)16 42 80 00 Fax: +46 (0)16 42 80 01 info@westermo.com www.westermo.com

Sales Units Westermo Data Communications

China

sales.cn@westermo.com www.cn.westermo.com

Franc

infos@westermo.fr www.westermo.fr

Germany

info@westermo.de www.westermo.de

North America

sales.us@westermo.com www.westermo.com

Singapore

sales@westermo.com.sg www.westermo.com.sg

Sweden

info.sverige@westermo.se www.westermo.se

United Kingdom

sales@westermo.co.uk www.westermo.co.uk

Other Offices



For complete contact information, please visit our website at www.westermo.com/contact or scan the QR code.