



Wwesterne

DC2

Industrial Ethernet Extender

DDW-142



- Up to 15.3 Mbit/s Ethernet over twisted pair or 30.4 Mbit/s with bonding
- 2 port 100 Mbit L2 switch supporting VLAN and QoS
- Legacy connection via RS-232 port
- **Security**, legacy resilient networking from WeOS
 - Port access control (802.1x) or MAC authentication
 - RSTP and multimedia ring solutions
 - Modem replacement, serial to IP, Modbus Gateway functions
- **Easy to Use**
 - Basic installation with no configuration needed
 - Web screen for simple configuration and CLI for professional use
 - USB fluid configuration for easy maintenance
- **■** Robustly designed for mission critical applications
 - 437,000 hours MTBF to MIL- HDBK -217F for extreme reliability
 - Extensive line diagnostics and fault I/O contact and SNMPv3
 - Robust design for vibration, temperature and dual power input

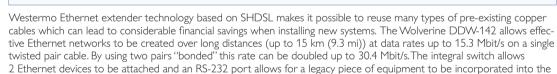


IP network.

EN 61000-6-3

EN 61000-6-4

EN 50121-4



The WeOS (Westermo Operating Systems) has been developed to allow cross platform and future proof solutions. WeOS can deliver unique security functionality for this class of product as well as allowing the DDW-142 to form part of a resilient multimedia ring network using the Westermo FRNT protocol or industry standard STP/RSTP. WeOS has been developed to provide industrial networking solutions and contains amazing serial connectivity capability - from being able to simulate an old AT modem, convert Modbus RTU to TCP or encapsulate serial data into an IP packet.

The DDW-142 is incredibly flexible and easy to use. A basic point to point or multidrop network can be created without the need for any kind of configuration. If however a more complex solution requires some kind of network configuration the Web based setup is simple to use. A CLI interface is also provided making the unit easy for networking professionals to quickly master. Once the system is configured an easy solution is also available for the maintenance engineer – USB backup and restore means that stored configurations can be automatically downloaded from a USB stick.

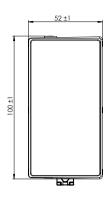
The DDW-142 is often used in applications on railways, roads or with utilities where failure could result in significant costs. All Westermo products are designed with high MTBF in mind to improve operational reliability and also give long service life. Even features like the SHDSL diagnostics and management allow indication of line degradation allowing planned maintenance. As the unit is designed for these applications Westermo also ensure that testing is carried out to ensure the unit can operate at extremes of temperature, EMC and vibration and still provide robust communications.

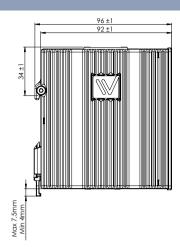
Ordering Information	
Art.no	Description
3642-0300	DDW-142
1211-2027	Diagnostic cable (Console) (Accessories)
3125-0001	PS-30, Power supply, DIN mounted (Accessories)



Specifications DDW-142

Dimensional drawing





Dimension W x H x D $52 \times 100 \times 101$ mm (2.04 × 3.93 × 3.97 in)

Weight 0.8 kg Degree of protection IP 40

Power	
Operating voltage	19 to 60 VDC
Rated current	245 mA (405 mA) @ 24 VDC (with 500 mA USB load) 124 mA (200 mA) @ 48 VDC (with 500 mA USB load)

Interfaces	
Ethernet TX	$2 \times RJ-45$, 10 Mbit/s, 100 Mbit/s, manual or auto
SHDSL	2 × 2-position detachable screw terminal
RS-232	1 x RJ-45, 300 bit/s - 115.2 kbit/s
Digital I/O	1 x 4-position detachable screw terminal
USB	1 x USB 2.0 host interface
Console	1 x 2.5 mm jack, use only Westermo cable 1211-2027

Temperature	
Operating	-40 to +70°C (-40 to +158°F)
Storage & Transport	−40 to +85°C (−40 to +185°F)

Agency approvals and standards compliance		
EMC	EN 55024 + A1 + A2, Electromagnetic compatibility – Immunity IT equipment.	
	EN 55022 + A1, Information technology equipment. Radio disturbance characteristics. Limits and methods of measurement.	
	EN 61000-6-1, Immunity residential environments.	
	EN 61000-6-2, Immunity industrial environments.	
	EN 61000-6-4, Emission industrial environments.	
	EN 61000-6-3, Emission residential, commercial and light-industrial environments.	
	FCC part 15 Class A and Class B.	
	EN 50121-4, Railway signalling and telecommunications apparatus.	
	IEC 62236-4, Railway signalling and telecommunications apparatus.	
Safety	EN 60950-1	

Specfications may change without prior notice.

