# Robust Network Solutions

## – Made Easy


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# 35 years at the leading edge of industrial data communications

**Produced by:**
Westermo Teleindustri AB
**Photo:**
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*Specifications are subject to change without notice due to continuous product development and improvement.*

Westermo provides a full range of data communications solutions for demanding applications in the transport, water and energy markets among others. For the past 35 years, we have been at the forefront of technological development and often pushed the limits of what is technically possible.

The staff at Westermo offers the highest possible service to help customers to select, configure and install the best solution for their specific needs. Our knowledge goes far beyond our own product range, regardless of whether the installation is in a substation, water treatment plant or alongside a railway.

In order to provide the best possible support, we have local presence in more than 35 countries through our authorized distributors and own offices.

Since 2008 Westermo has been part of the Beijer Electronics Group, a company with unique knowledge of the HMI and industrial automation business.

# Westermo Delivers Robust Industrial Networks

The traditional Westermo values of robustness and reliability in hardware design are now complemented by the WeOS network software solution. Over the last few years, Westermo has worked to develop this market leading software solution that operates on a range of Westermo's most robust hardware platforms.

*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.

# Westermo Robust

## Connecting Mission Criti

LONG LIFE AND RELIABILITY

Infrastructure solutions are expected to run faultlessly for many years. Maintenance is expensive on remote industrial sites so high MTBFs and extended service life are both critical.

WEOS THE SOLUTION PROVIDER

There is much installed legacy equipment within infrastructure systems. WeOS provides the easy step from the older serial based technologies to the high speed Ethernet and IP solutions of today.

RedFox

### Robust Routing Switch

Robust routing performance offering many different port configurations.

Lynx

### Compact Industrial Switch

Incredible switch and routing functionality, and legacy serial connectivity in a fantastically compact housing.

Falc

### Industrial Br

The worlds first V

# Network Solutions

## cal Infrastructure Systems

FUTURE PROOF DESIGN

WeOS is a cross platform, easy to use solution undergoing constant development. Future hardware platforms will have perfect interoperability and identical look and feel, even as new functionality is added.

PRODUCTION QUALITY

Reliability comes from high quality manufacturing processes. The Westermo production facility in Sweden tests hardware at all stages of manufacture to ensure that every product arrives at the customer fully operational and ready for a long and reliable life.

Wolverine

### Wolverine Industrial Ethernet Extender

Extend networks to extreme distances by reusing existing telecoms cables.

Viper

### Ultra Robust Routing Switch

Designed to meet the stringent requirements to operate on trains, these switches are the pinnacle of robust design.

on

### oadband Router

DSL2 remote access router.

# WeOS – At the core of Westermo R&D

WeOS is under constant development to ensure it matches up to the needs of our rapidly changing world. This means that we can introduce additional IP protocol support as well as unique problem solving functionality that will be available to existing customers and also across all platforms.

## Constant Code Validation

Constant updating of software can be a risk so our R&D team must operate with a structured methodology. Automatic code validation and regression testing is carried out every night ensuring a thorough verification of basic functionality after every software change.

## Simple and Flexible Configuration

***Made Easy*** is at the core of the WeOS development with extra care being taken to ensure our intuitive CLI interface is logical for the network professional, as well as our web interface being simple to use for the automation specialist.


## Industrial Focus

Although WeOS can deliver a wide range of standard IT networking protocols, our team of developers can draw from 35 years of industry knowledge to ensure it can also provide unique automation solutions.

## Enhanced interoperability

Open source code is utilised to provide enhanced interoperability with both Westermo solutions and other networking equipment.

# Robust WeOS Applications

## Cost effective improved rail safety

The Wolverine DDW-225 was used as part of an ERTMS (European Rail Traffic Management System) by Banverket, the Swedish Rail operator.

The robust hardware has had to withstand temperatures down to –40°C and below, whilst the diagnostic functionality within WeOS can provide pre-warning of the degradation of the cabling between each Wolverine.

## Westermo industrial Ethernet switch reduces the stress for ABB Force Measurement

ABB FM (Force Measurement) is using Westermo's RedFox industrial Ethernet switch with its latest version of Stressometer system for measurement and control of rolling mills.

The implementation of the RedFox Industrial device has helped to reduce the number of data communication products needed from six to one, simplifying the system and lowering costs.