WeOS

Westermo Operating System

- Future proofed solution from Westermo
  - Available on current and future platforms
  - Layer 2 and Layer 3 functionality
  - Constant validation and update releases
- Resilient secure multimedia network solutions
  - Ethernet, Fibre, xDSL and serial support
  - Layer 2 and 3 Ring solutions for network resilience
  - Inbuilt firewalls
- Simple to use
  - Easy to use web screens + CLI
  - Advanced diagnostic capability
  - Simplified cross product training
- Industrial application solutions
  - Legacy support for serial and IP applications
  - Allows a switch to become a security device
  - Secure remote access functionality

RedFox Lynx Wolverine Viper Falcon

WeOS is a Westermo developed layer 2 and layer 3 switching solution that we will use on all future hardware solutions as well as in our current range of products. This will protect your investment by ensuring future availability of fully compatible solutions as well as it will solve many complex networking issues.

WeOS is the core of our latest ranges of Ethernet hardware allowing complex multimedia ring networks, routing solutions to be created.

With WeOS we deliver unique network security solutions utilising stateful inspection firewall and IEEE 802.1X, remote secure access can be provided using encrypted VPN tunnels.

Great focus has gone into ease of use. A web screen makes for simple configuration of many functions while a command line interface allows for fine tuning. Once you are familiar with one WeOS product that knowledge can be readily applied to our other solutions.

With Westermo's many years of experience of industrial applications we have developed many unique functions into our platform allowing us to provide integration paths for legacy equipment as well as network security. Our WeOS white paper demonstrates how many of these functions can be set up.

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Protocols and Functionality

	RFI	Lynx	Lynx DSS	Wolverine DDW-225	Wolverine DDW-142 DDW-226	Falcon	Viper
Serial Port Technologies Modem Replacement, Modbus Gateway, PPP dial in/dial out and Serial over IP			⁞⁞		⁞⁞	⁞⁞	
Resiliency and High Availability Fast Reconfiguration of Network Topology (FRNT) IEEE 802.1D (STP) and IEEE 802.1w (RSTP) IEEE 802.1AX/802.3ad Link Aggregation	⁞⁞	⁞⁞	⁞⁞	⁞⁞		⁞⁞	⁞⁞
Layer-2 Switching IEEE 802.1Q Static VLAN and VLAN Tagging IEEE 802.3x Flow Control IGMPv2/v3 snooping AVT Dynamic VLAN (Adaptive VLAN Trunking) Management VLAN (Management Interface concept) Static Multicast MAC filters	⁞⁞	⁞⁞	⁞⁞	⁞⁞		⁞⁞	⁞⁞
Layer-2 QoS IEEE 802.1p Class of Service	⁞⁞	⁞⁞	⁞⁞	⁞⁞		⁞⁞	⁞⁞
Layer-2 security IEEE 802.1X Port Access Control MAC Authentication	⁞⁞	⁞⁞	⁞⁞	⁞⁞		⁞⁞	⁞⁞
IP Routing, Cyber security, Firewall and VPN Static IP routing* Dynamic IP routing* • OSPFv2 • RIPv1/v2* • Robust VRRP* • Static Multicast Routing* Stateful Inspection Firewall* • NAT and 1-1 NAT, Proxy ARP for 1-1 NAT* • Port Forwarding* IKEv1, certificates and PSK* • IKEv1* • ESP* • VPN failover* GRE* Multinetting* Loopback Interface*	⁞⁞	⁞⁞	⁞⁞	⁞⁞		⁞⁞	⁞⁞
Manageability Management tools • Web interface (HTTP and HTTPS or CLI (SSHv2 or Telnet) • SNMPv1/v2c/v3 • Flexible management of configuration and log files Flexible alarm/event handling system USB Fluid configuration ** Digital I/O and Flexible alarm/event handling system Syslog (log files and remote syslog server) Port Monitoring SNTP (NTP client) PPPoE client* DHCP client DHCP server including option 82* DHCP relay agent including option 82 DDNS	⁞⁞	⁞⁞	⁞⁞	⁞⁞		⁞⁞	⁞⁞
SNMP MIB support RFC1213 MIB-2 RFC2863 Interface MIB (ifXTable) RFC2819 RMON MIB (etherStatsTable) RFC4188 Bridge MIB RFC4318 RSTP MIB RFC4363 Q-BRIDGE MIB (dot1qVlan and dot1qVlanStaticTable) RFC4836 MAU MIB (dot3IfMauBasicGroup and dot3IfMauAutoNegGroup) RFC4133 Entity MIB (entityPhysical) RFC4319 HDSL2/SHDSL MIB RFC3433 Entity Sensor MIB RFC3621 Power Ethernet MIB WESTERMO PRIVATE MIB	⁞⁞	⁞⁞	⁞⁞	⁞⁞		⁞⁞	⁞⁞

* Available in products with L3 functionality. ** USB support is not available in L110-F2G and L210-F2G.

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