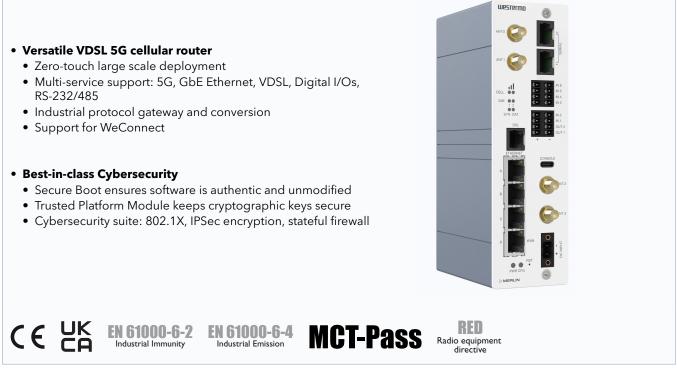


Westermo

VDSL 5G Cellular Router Merlin 4750 Series



The Merlin series of versatile cellular routers provide high speed data network connectivity for demanding industrial and smart grid applications. Coupled with the Zero Touch deployment software Activator, it provides cost-effective, reliable, and consistent onboarding of routers in large-scale projects.

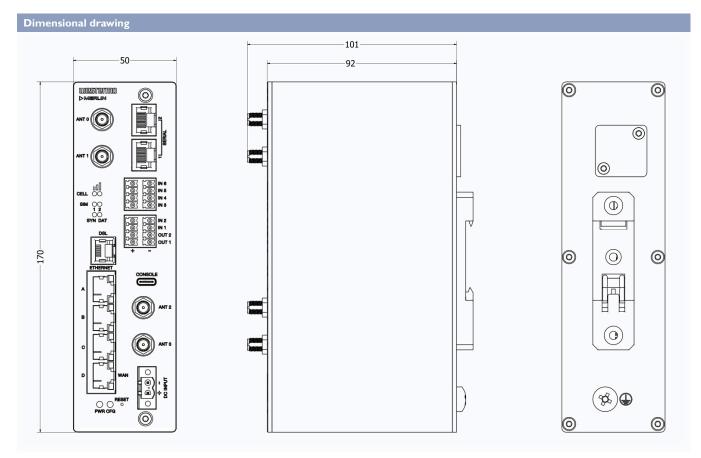
This compact, rugged unit is suited to tight spaces. Its high MTBF and wide temperature range support maximum service life.

To achieve best-in-class cybersecurity, the Merlin series is equipped with a TPM (Trusted Platform Module) chip that keeps cryptographic keys secure. Secure Boot ensures that the unit boots using only software that is signed and trusted by manufacturer. A set of cybersecurity tools is available as standard including VPN and stateful Firewall support for data security and user authentication.

The built-in industrial protocol gateway enables several devices using different protocols to be accessed via a common protocol interface. The unit supports up to 6 digital inputs and 2 outputs for local control or monitoring. Support for more digital inputs and outputs is possible using external modules.



Specifications - Merlin 4750 Series



Housing		
Dimensions (W x H x D)	50 x 170 x 101 mm	
Housing	Full metal	
Weight	760 g	

Power parameters			
Operating voltage 9.6 to 60 VDC			
Power consumption	12 W		
Hold up time	100 msec		
Isolation	4.0 kVrms galvanic isolation on power port		

Environmental				
Temperature, operating	-20 to +65°C			
Temperature, storage and transport	-30 to +70°C			
Ingress protection	IP30 as standardIP31 when fitted with accessory part 432-00078			
Humidity, operating	5-95% relative humidity			

Approvals	
EMC	 EN/IEC 61000-6-2, Immunity industrial environments EN/IEC 61000-6-4, Emission industrial environments
Safety	EN 62368-1, Safety Communication Technology
VDSL	BT Openreach MCT (pending)



Interface				
Ethernet	Ethernet 4 x 10/100/1000 Mbit/s, Ethernet TX, RJ45			
DSL	VDSL2 / ADSL2+ Annex A, Annex B, RJ11			
Mobile	5G			
SIM cards	2 x Mini-SIM (2FF) card slots to rear, covered by metal plate			
Antenna connectors	4 x SMA compatible connectors			
Console	USB type-C. Router acts as device			
Serial	Up to 2 serial ports, each software configurable for RS232/RS485			
Digital inputs	Up to 6 digital inputs for detecting remote contact open/close			
Digital outputs	Up to 2 relay contact outputs.			

Telcordia 815.00)00 hours

Software Features					
Management	Web interface (HTTPS), SMS management support, CLI via console, SSHv2, TFTP, SNMPv1/v2c/3, Secure Copy (SCP), Flexible alarm and event system, Port monitoring				
Monitoring	Built-in diagnostics and packet tracing, event logging, SNMP Traps, Syslog				
IP Routing	IPv4 and IPv6, DHCP, DynDNS, NAT, NAT Traversal, NTP Client, VLAN support, Packet filtering, Port forwarding, BFD, BGPv4, OSPF, RIP (v1 and v2), IPSec/L2TP/GRE, DMVPN, SNMP v1/v2/v3, TLS 1.2, 802.1x authentication, IEC104, QoS, VRRP, VRF				
Firewall	Stateful inspection firewall, RADIUS, TACACS+				
IPSec VPN	IKE Version 2, X.509 certificates, ECC, SHA2_512 support, AES_CBC (256), PFS, SCEP, DH_8192				
SCADA Protocol Conversion	Control of I/O from SCADA master, IEC 60870-5-104, IEC 60870-5-101, IEC 61850, Modbus RTU, Modbus TCP, Modbus RTU to TCP conversion, DNP3, Serial to Ethernet, MQTT				
RTU Functionality	Monitoring and Control of I/O from SCADA master, Protocol conversion, Basic PLC functions				

Mobile Frequency Bands							
Region	3G Bands	LTE Bands	5G NR	GNSS			
Global	B1, B2, B4, B5, B8, B19	B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B29, B30, B32, B34, B38, B39, B40, B41, B42, B43, B48, B66, B71	n1/2/3/5/7/8/12/13/14/18/20/25/26/ 28/29/30/38/40/41/48/66/70/71/75/ 76/77/78	No			

Warranty	
Validity	5 years

Art.no.	Product	Ethernet	Serial	VDSL2/ ADSL2+	USB Console	Digital Inputs	Digital Outputs	Region
3460-47501	Merlin-4758-V-T4G-S2-DI6-DO2- LV-PFO	4	2	Yes	Yes	6	2	Global
3460-47502	Merlin-4757-T4G-S2-DI6-DO2- LV-PFO	4	2	No	Yes	6	2	Global

Accessories	
3125-0150	PS-60, power supply. DIN-mounted. Input voltage: 100 to 240 VAC, 50 to 60 Hz or 110 to 250 VDC
432-00078	End Cap for Merlin 4700 Series and Merlin 4600 Series routers
1211-2210	Westermo auxiliary serial adapter cable RJ-45/D-sub, 50cm length
Note: antennas not included	

