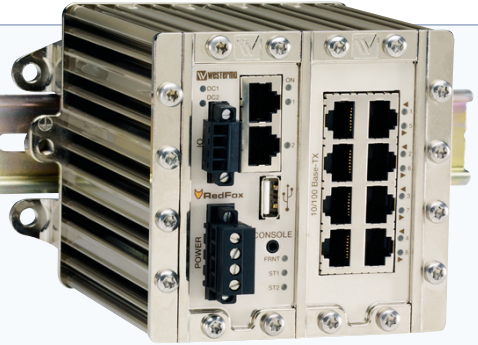# Industrial Routing Switch

RFI-10

▦ High performance and configurable
- High port counts in compact design
- Long cable specification, up to 150 m
- Advanced WeOS layer 3 functionality

▦ Designed for use in harsh industrial applications
- Dual 16 – 60 VDC power input
- Highly configurable fault I/O contact
- Robust aluminium housing

▦ Robust for long service life
- 520,000 hours MTBF to MIL-HDBK-217K
- –40 to +70°C (–40 to +158°F) with no moving parts
- Industrial EMC, shock and vibration testing

▦ Unique future proof industrial networking solutions
- Simple web configuration with professional CLI
- Network IP Security and remote access
- Multiple network resilience solutions

CE   FC Part 15   c(UL)us LISTED   ATEX   TYPE APPROVED PRODUCT DNV   IndustrialIT enabled

EN 50121-4 Railway Trackside

EN 61000-6-2 Industrial Immunity

EN 61000-6-4 Industrial Emission

RedFox is designed for industrial application with many functions designed for easy use. The high bandwidth design allows for up to 8 Gbit ports as well as having other ports that can deliver 10/100 Mbit. The RedFox is powered by WeOS (Westermo Operating System) which is our cross platform solution providing strong future proofing and ease of use.

In RedFox the design of the electronics is critical to ensure long service life in extreme operating environments. Only industrial grade components are used which gives the RedFox an MTBF of 520 000 hours. The ultra robust RedFox has a heavy-duty aluminium enclosure for maximum strength and heat dissipation ensuring that the wide temperature range –40 to +70°C (–40 to +158°F) can be achieved with no moving parts or cooling holes in the case.

RedFox has been tested both by Westermo and external test houses to meet many EMC, isolation, vibration and shock tests, all to the highest levels suitable for heavy industrial environments and rail trackside application.
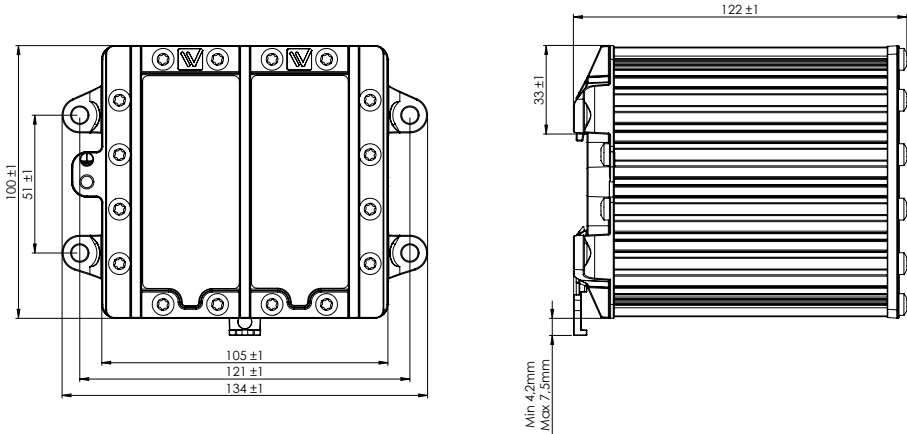
WeOS is a Layer 3 switch operating system that can deliver unique IP security functionality for this class of product, for instance a Multiport DMZ can be constructed by utilising the internal port based firewall function. Remote secure access to a network can be provided using encrypted VPNs. *For more WeOS functionality please see the WeOS datasheet.*

Ordering Information	
Art.no	**Description**
3641-3110	RFI-10, Industrial Routing Switch
1211-2027	CLI Cable (Console), (Accessories)
3125-0001	PS-30, Power supply, DIN mounted (Accessories)

Specifications RFI-10

Dimension	134 x 100 x 122 mm (5.25 x 3.93 x 4.80 in)
Weight	1.5 kg
Degree of protection	IP 40

Power	
Operating voltage	16 to 60 VDC
Rated current	554 mA @ 20 VDC

Interfaces	
Console	1 x 2.5 mm jack, use Westermo cable 1211-2027
USB	1 x USB 2.0 host interface
Digital I/O	1 x 4-position detachable screw terminal
Ethernet TX	10 x RJ-45, 10 Mbit/s or 100 Mbit/s

Temperature	
Operating	–40 to +70°C (–40 to +158°F)
Storage & Transport	–40 to +85°C (–40 to +185°F)
Maximum surface temperature	135°C (275°F) (temperature class T4)

Agency approvals and standards compliance	
EMC	EN 55024, EN 55024 A1, EN 55024 A2, Electromagnetic compatibility – Immunity IT equipment
	EN 55022, EN 55022 A1, Information technology equipment. Radio disturbance characteristics. Limits and methods of measurement
	EN 61000-6-2, Electromagnetic compatibility – Immunity for industrial environments
	EN 61000-6-4, Electromagnetic compatibility – Emission for industrial environments
	EN 50121-4, Railway applications – Electromagnetic compatibility – Emission and immunity of the signalling and telecommunications apparatus
	FCC part 15 Class A
Safety	UL/IE C/EN 60950-1, IT equipment
ATEX	EN 60079-0 and EN 60079-15 (Ex nA II C T4 Gc)
Marine	DNV Standard for Certification no. 2.4