

Industrial Routing Switch

RFI-207-F4G-T3G-EX



- ⌘ Global approval for hazardous areas and maritime usage
 - IECEx, International EX standard
 - ATEX 94/9/EC, EU directive
 - DNV and GL approved
- ⌘ Designed for demanding Edge Network applications
 - 7 ports, all gigabit
 - Advanced WeOS layer 3 functionality
 - Low power consumption DC supply
- ⌘ Robust for long service life
 - 388,000 hours MTBF to MIL-HDBK-217K
 - -40 to +70 °C without ventilation holes
 - Industrial and trackside type tested
- ⌘ Unique future proof industrial networking solutions
 - Simple web configuration with professional CLI
 - Network IP Security and remote access
 - Multiple network resilience solutions



EN 50121-4
Railway Trackside

EN 55022
ITE Emission

EN 55024
ITE Immunity

EN 61000-6-1
Residential Immunity

EN 61000-6-2
Industrial Immunity

EN 61000-6-3
Residential Emission

EN 61000-6-4
Industrial Emission

RedFox EX is a high performance layer 3 industrial Ethernet switch designed for high network traffic applications in EX environments. RedFox EX is independently tested for IECEx and ATEX by Baseefa. This makes RedFox EX perfect for hazardous area applications in any part of the world. Various port configurations are available that can be further customised with SFP transceivers. RedFox EX is powered by the Westermo WeOS network operating system.

The RedFox is designed for use in heavy duty industrial applications in its robust aluminium housing. Its wide power range and I/O fault contact make it ideal for easy installation and monitoring in industrial applications.

Only industrial grade components are used which gives the RedFox an MTBF of 388,000 hours and ensures a long service life. A wide operating temperature range -40 to +70 °C (-40 to +158 °F) can be achieved with no moving parts or cooling holes in the case. RedFox EX has been tested both by Westermo and external test houses to meet many EMC, isolation, vibration and shock standards, all to the highest levels suitable for heavy industrial environments and rail trackside application.

WeOS has been developed by Westermo to allow us to offer cross platform and future proof solutions. WeOS 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.

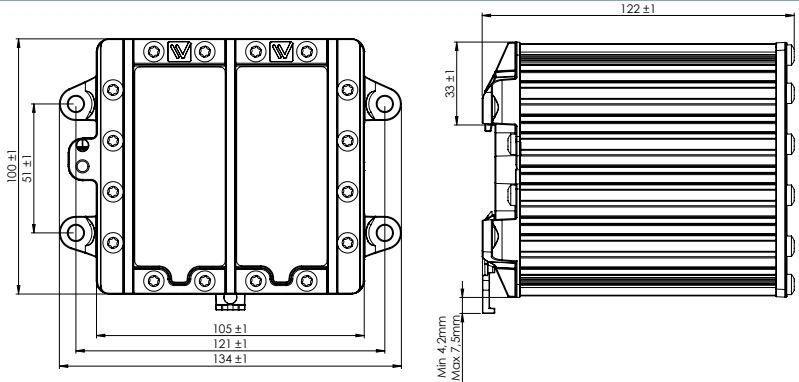
For more WeOS functionality please see the WeOS datasheet.

Ordering Information

| Art.no | Description |
|-----------|---|
| 3641-5210 | RFI-207-F4G-T3G-EX, Industrial routing switch |

Specifications RFI-207-F4G-T3G-EX

Dimensional drawing



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

| Power | |
|-------------------|--|
| Operating voltage | 16 to 60 VDC |
| Rated current | 0.55 (0.72*) A @ 20 VDC 0.23 (0.29*) A @ 48 VDC |

*With 500mA USB load

| Interfaces | |
|-------------|--|
| Console | 1 x USB Micro-B connector |
| USB | 1 x USB 2.0 host interface |
| Digital I/O | 1 x 4-ports detachable screw terminal |
| Ethernet | 3 x 10/100/1000 Mbit/s, Ethernet TX, RJ-45 4 x 100/1000 Mbit/s, pluggable connections transceivers supported, Ethernet FX or TX SFP |

| Temperature | |
|-----------------------------|--------------------------------------|
| Operating | -40 to +70 °C (-40 to +158 °F) |
| Storage & Transport | -50 to +85 °C (-58 to +185 °F) |
| Maximum surface temperature | 135°C (275°F) (temperature class T4) |

| Agency approvals and standards compliance | |
|---|---|
| EMC | EN 50121-4, Railway applications – Electromagnetic compatibility – Emission and immunity of the signalling and telecommunications apparatus |
| | EN 55022, Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement |
| | EN 55024, Information technology equipment – Immunity characteristics Limits and methods of measurement |
| | EN 61000-6-1, Electromagnetic compatibility – Immunity for residential, commercial and light-industrial environments |
| | EN 61000-6-2, Electromagnetic compatibility – Immunity for industrial environments |
| | EN 61000-6-3, Electromagnetic compatibility – Emission standards for residential, commercial and light industrial environments |
| | EN 61000-6-4, Electromagnetic compatibility – Emission standard for industrial environments |
| FCC part 15 Class A | |
| Safety | UL/IEC/EN 60950-1, IT equipment |
| Marine | DNV Standard for Certification no. 2.4 |
| IECEx | Explosive atmosphere: IEC 60079-0, General requirements |
| | IEC 60079-15, Equipment protected by type of protection "n" IEC 60079-28, Protection of equipment and transmission systems using optical radiation |
| ATEX | Explosive atmosphere: EN 60079-0, General requirements |
| | EN 60079-15, Equipment protected by type of protection "n" |
| | EN 60079-28, Protection of equipment and transmission systems using optical radiation |