Managed EX approved Device Server Switch

L-108-F2G-S2 EX

- Global approval for hazardous area use
  - IECEx, International EX standard
  - Atex 2014/30/EU, EU directive
  - Class 1 Div 2, approval for US and Canada
- Compact Industrial Ethernet switch design
  - Flexible SFP transceiver design
  - Advanced WeOS Layer 2 functionality
  - Low power consumption
- Robust for long service life
  - 517,000 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
  - 20 ms network ring recovery time
  - Fast reconnect for multicast protocols
  - Easy to use

EN 50121-4 Railway Trackside

EN 61000-6-1 Residential Immunity | EN 61000-6-2 Industrial Immunity | EN 61000-6-3 Residential Emission | EN 61000-6-4 Industrial Emission | IEC 60079-0 Explosive atmospheres | IEC 60079-15 Explosive atmospheres | IEC 60079-28 Explosive atmospheres

The Lynx 108-EX is a layer 2 managed industrial Ethernet switch, powered by the Westermo WeOS network operating. Independently tested for IECEX and ATEX by Baseefa as well as Class 1 Division II by FM approval the Lynx is the perfect solution for hazardous area applications in any part of the world.

Lynx is the most compact and has the lowest power requirements in this class of switch. Lynx has 8 10/100 Mbit/s ports in addition to 2 ports which can be fitted with Gbit or 100 Mbit SFP transceivers.

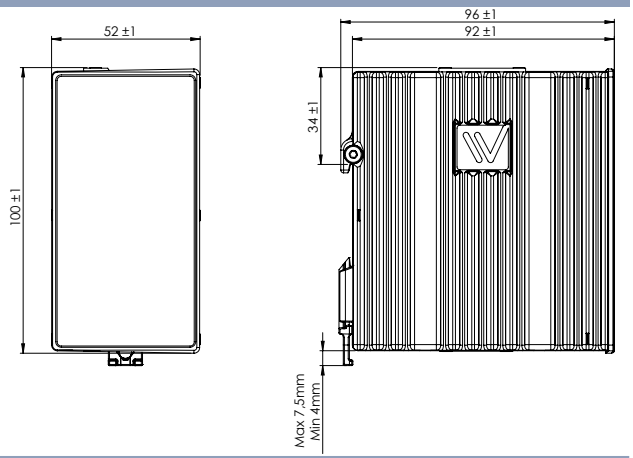
Only industrial grade components are used which gives the Lynx an MTBF of 517,000 hours and ensures a long service life. A wide operating temperature range –40 to +70°C (–40 to +158°F) can be achieved with no moving parts or cooling holes in the case. Lynx has been tested both by Westermo and external 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 20 ms ring recovery performance even for networks with video or EtherNet/IP traffic. For EX approved transceivers and more WeOS functionality please see the transceiver and WeOS datasheets.

Ordering Information	
Art.no	**Description**
3643-5200	L108-F2G-S2 EX, Managed EX approved Device Server Switch
1211-2027	CLI Cable (Console) (Accessories)
1211-2210	RJ-45 to DB9 cable (Accessories)

Specifications L108-F2G-S2 EX

Dimensional drawing



Dimension W x H x D	52 x 100 x 101 mm (2.04 x 3.93 x 3.97 in)
Weight	0.7 kg
Degree of protection	IP40

Power	
Operating voltage	19 to 60 VDC
Rated current	250 mA (380 mA) @ 24 VDC (with 500 mA USB load) 120 mA (188 mA) @ 48 VDC (with 500 mA USB load)

Interfaces	
Ethernet TX	4 x RJ-45, 10 Mbit/s, 100 Mbit/s,
Ethernet SFP pluggable connections (FX or TX)	SFP (LC connector), 100 Mbit/s or 1000 Mbit/s transceivers supported
2 Serial ports (One configurable for RS-232 or RS-422/485)	1 x RJ-45, RS-232: 50 bit/s – 115.2 kbit/s
	1 x RJ-45, RS-422/485: 50 bit/s – 2 Mbit/s
Digital I/O	1 x 4-position detachable screw terminal
USB	1 x USB 2.0 host interface
Console	1 x 2.5 mm jack, use only Westermo cable 1211-2027

Temperature	
Operating	–40 to +70°C (–40 to +158°F)
Storage & Transport	–50 to +85°C (–58 to +185°F)

Agency approvals and standards compliance	
EMC	EN 61000-6-1, Immunity residential environments
	EN 61000-6-2, Immunity industrial environments
	EN 61000-6-3, Emission residential environments
	EN 61000-6-4, Emission industrial environments
	EN 50121-4, Railway signalling and telecommunications apparatus
	IEC 62236-4, Railway signalling and telecommunications apparatus
Safety	UL/IEC/EN 60950-1, IT equipment
Marine	DNV GL rules for classification – Ships and offshore units
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 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
Class1 Div 2	FM Approval