

Managed EX approved Device Server Switch

L105-S1 EX

- ⌘ Global approval for hazardous area use
 - IECEx, International EX standard
 - Atex 94/9/EC, 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
 - 677,000 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 61000-6-2
Industrial Immunity

EN 50121-4
Railway Trackside

EN 55022
ITE Emission

IEC 60079-0
Explosive atmospheres

EN 61000-6-4
Industrial Emission

IEC 60079-15
Explosive atmospheres

The Lynx 105 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 677,000 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.

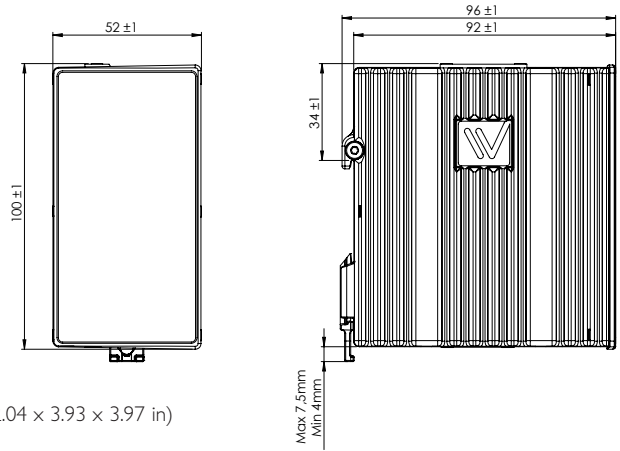
WeOS has been developed by Westermo to allow us to offer cross platform and future proof solutions. WeOS can deliver 20 ms ring recovery performance even for networks with video or EtherNet/IP traffic. For EX approved transceivers and more WeOS functionality please see the transceiver and WeOS datasheets.

Ordering Information

Art.no	Description
3643-5210	L105-S1 EX, Managed EX approved Device Server Switch
1211-2027	CLI Cable (Console) (Accessories)
1211-2210	RJ-45 to DB9 cable (Accessories)

Specifications L105-S1 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 IP 40

Power

Operating voltage	19 to 60 VDC
Rated current	140 mA (290 mA) @ 24 VDC (with 500 mA USB load) 70 mA (140 mA) @ 48 VDC (with 500 mA USB load)

Interfaces

Ethernet TX	4 x RJ-45, 10 Mbit/s, 100 Mbit/s
1 Serial ports	1 x RJ-45, RS-232, 50 bit/s – 115.2 kbit/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 61000-6-4, Emission industrial environments	
	EN 55022 +A1, Emission IT equipment	
	EN 55024, Immunity IT equipment	
	FCC part 15 Class A	
	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 Standard for Certification no. 2.4	
IECEx	Explosive atmosphere IEC 60079-0, General requirements IEC 60079-15, Equipment protected by type of protection "n"	
	ATEX	Explosive atmosphere EN 60079-0, General requirements EN 60079-15, Equipment protected by type of protection "n"
		Class1 Div 2