Managed Device Server Switch

L105-S1

⸬ Compact Device Server Switch for legacy application
- RS-232 serial port
- Advanced WeOS Layer 2 functionality
- Low power consumption

⸬ Designed for use in industrial applications
- Dual 19 – 60 VDC power input
- Highly configurable I/O contact
- Robust metal DIN rail housing

⸬ Robust for long service life
- 499.000 hours MTBF to MIL-HDBK-217K
- –40 to +70°C (–40 to +158°F) with no moving parts

⸬ Unique future proof industrial networking solutions
- Legacy IP solutions
- Network IP Security and remote access
- Multiple network resilience solutions

CE FC Part 15 c UL us LISTED TYPE APPROVED PRODUCT DNV

EN 61000-6-2 Industrial Immunity

EN 61000-6-4 Industrial Emission

EN 55022 ITE Emission

EN 50121-4 Railway Trackside

Lynx DSS is available in several versions, the L105-S1 is a device server with a layer 2 industrial Ethernet switch, powered by the Westermo WeOS network operating system. Lynx DSS is the most compact and has the lowest power requirements in this class of device servers. Lynx DSS has 4 10/100 Mbit/s ports and one RS-232 port.

Lynx DSS is designed for simple use in industrial applications, from the robust DIN rail clip solution to the configurable fault contact and the industrial level dual power inputs.

Only industrial grade components are used which gives the Lynx DSS an MTBF of 500.000 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 DSS 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.
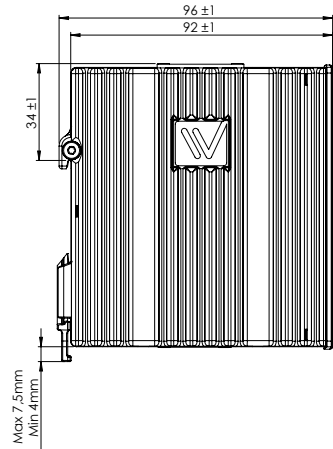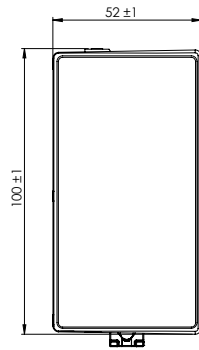
WeOS has been developed by Westermo to allow us to offer cross platform and future proof solutions. WeOS deliver unique functionality in legacy IP solutions, supporting Modbus Gateway, virtual COM, modem replacement or several options in dual TCP applications. For more WeOS functionality please see the WeOS datasheet.

Ordering Information

Art.no	Description
3643-0210	L105-S1
1211-2027	CLI Cable (Console) (Accessories)
1211-2210	RJ-45 to DB9 cable (Accessories)
3125-0001	PS-30, Power supply, DIN mounted (Accessories)

Specifications L105-S1

Dimensional drawing

52 ±1

100 ±1

96 ±1
92 ±1

34 ±1

Max 7.5mm
Min 4mm

Dimension W x H x D	52 × 100 × 101 mm (2.04 × 3.93 × 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 × RJ-45, 10 Mbit/s, 100 Mbit/s
1 Serial ports	1 × RJ-45, RS-232, 50 bit/s – 115.2 kbit/s
Digital I/O	1 × 4-position detachable screw terminal
USB	1 × USB 2.0 host interface
Console	1 × 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 B
	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