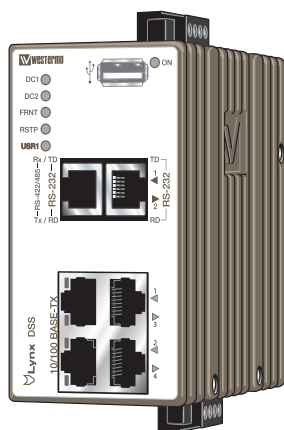




Lynx DSS

L106-S2/L206-S2



**Industrial Ethernet
6-port Device Server Switch**

License Information

This device contains public available software which is under the GPL license.

For more information see [legal.pdf](#) included with all firmware releases.

This product includes software developed by the OpenSSL Project for use in the **OpenSSL Toolkit**. <http://www.openssl.org>

Legal information

The contents of this document are provided "as is". Except as required by applicable law, no warranties of any kind, either express or implied, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose, are made in relation to the accuracy and reliability or contents of this document. Westermo reserves the right to revise this document or withdraw it at any time without prior notice.

Under no circumstances shall Westermo be responsible for any loss of data or income or any special, incidental, and consequential or indirect damages howsoever caused.

More information about Westermo can be found at the following Internet address:

<http://www.westermo.com>

Safety



Before installation:

Read this manual completely and gather all information on the unit. Make sure that you understand it fully. Check that your application does not exceed the safe operating specifications for this unit.

This unit should only be installed by qualified personnel.

This unit should be built-in to an apparatus cabinet, or similar, where access is restricted to service personnel only. The power supply wiring must be sufficiently fused, and if necessary it must be possible to disconnect manually from all power supply. Ensure compliance to national installation regulations. This unit uses convection cooling. Make sure that the unit is installed such as its ambient temperature is within its specified maximum/minimum temperature.



Before mounting, using or removing this unit:

Prevent access to hazardous voltage by disconnecting the unit from all power supply.

WARNING

Do not open connected unit. Hazardous voltage may occur within this unit when connected to power supply.

Before powering-up, a protective earthing conductor must be connected to the protective earthing terminal and have a cross-sectional area of at least 1.5 mm².

Note that this unit can be connected to two different power sources.

When this unit is operated at an ambient temperature above +55°C (+131°F), the External Surface of Equipment may exceed Touch Temperature Limit according to EN/IEC/UL 60950-1.

To reduce the risk of fire, use only No. 26 AWG or larger telecommunication line cord.

Care recommendations

Follow the care recommendations below to maintain full operation of unit and to fulfill the warranty obligations.

This unit must not be operating with removed covers or lids.

Do not attempt to disassemble the unit. There are not any user serviceable parts inside.

Do not drop, knock or shake the unit. Rough handling above the specification may cause damage to internal circuit boards.

Do not use harsh chemicals, cleaning solvents or strong detergents to clean the unit.

Do not expose the unit to any kind of liquids (rain, beverages, paint etc), unless all connectors and the ventilation membrane are sufficiently protected.

Do not use or store the unit in dusty or dirty areas, unless all connectors and the ventilation membrane are sufficiently protected.

Do not cover or bring mechanical force to the ventilation membrane on the back of the unit.

If the unit is not working properly, contact the place of purchase, nearest Westermo distributor office or Westermo Tech support.

Maintenance

No maintenance is required, as long as the unit is used as intended within the specified conditions.

Agency approvals and standards compliance

Type	Approval / 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 55022 +A1, Emission IT equipment
	EN 55024 +A1 + A2, 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

FCC Part 15.105

Notice:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- ⌘ Reorient or relocate the receiving antenna
- ⌘ Increase the separation between the equipment and receiver
- ⌘ Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- ⌘ Consult the dealer or an experienced radio/TV technician for help.

Corrosive environment

Notice:

This product has been successfully tested in a corrosion test according to IEC 60068-2-60, method 3. This means that the product meets the requirements to be placed in an environment classified as ISA-S71.04 class G3.

Note! If the product is placed in a corrosive environment, it is important that all un-used connector sockets are protected with a suitable plug in order to avoid corrosion attacks on the gold plated pins in connectors.

Declaration of Conformity



Westermo Teleindustri AB

Declaration of conformity

The manufacturer Westermo Teleindustri AB
SE-640 40 Stora Sundby, Sweden

Herewith declares that the product(s)

Type of product	Model	
Industrial Ethernet 6-port Device Server Switch	Lynx DSS	L*06-S2

is in conformity with the following EC directive(s).

No	Short name
2004/108/EC	Electromagnetic Compatibility (EMC)

References of standards applied for this EC declaration of conformity.

No	Title	Issue
EN 61000-6-1	Electromagnetic compatibility – Immunity for residential environments	2007
EN 61000-6-2	Electromagnetic compatibility – Immunity for industrial environments	2005
EN 61000-6-3	Electromagnetic compatibility – Emission for residential environments	2007 +A1:2011
EN 61000-6-4	Electromagnetic compatibility – Emission for industrial environments	2007 +A1:2011
EN 55022	Information technology equipment - Emission	2006 +A1:2007
EN 55024	Information technology equipment - Immunity	1998 +A1:2001 +A2:2003
EN 50121-4	Railway applications - Electromagnetic compatibility Emission and immunity of the signalling and telecommunications apparatus	2006

The last two digits of the year in which the CE marking was affixed: 12


Signature

Pierre Öberg
Technical Manager
29th October 2012

Postaddress/Postal address
S-640 40 Stora Sundby
Sweden

Tel.
016-428000
Int+46 16428000

Telefax
016-428001
Int+46 16428001

Postgiro
52 72 79-4

Bankgiro
5671-5550

Org.nr/
Corp. identity number
556361-2604

Registered office
Eskilstuna

Type tests and environmental conditions

Environmental phenomena	Basic standard	Description	Test levels
Electrostatic discharge	EN 61000-4-2	Enclosure	Contact: ± 6 kV Air: ± 8 kV
Fast transients	EN 61000-4-4	Power port	± 2 kV
		Ethernet	
		Status out/Digital in	
		Serial ports	
		Enclosure	
Surge	EN 61000-4-5	Power port	L-L: ± 0.5 kV, 2Ω , $18 \mu\text{F}$ L-E: ± 2 kV, 42Ω , $0.5 \mu\text{F}$ L-L: ± 1 kV, 42Ω , $0.5 \mu\text{F}$ L-E: ± 2 kV, 12Ω , $9 \mu\text{F}$ L-L: ± 1 kV, 12Ω , $9 \mu\text{F}$
		Ethernet	L-E: ± 2 kV, 2Ω , $0.5 \mu\text{F}$
		Status out/Digital in	L-E: ± 2 kV, 42Ω , $0.5 \mu\text{F}$ L-L: ± 1 kV, 42Ω , $0.5 \mu\text{F}$
		RS-232	L-E: ± 2 kV, 2Ω , $0.5 \mu\text{F}$
		RS-422/485	L-E: ± 2 kV, 42Ω , $0.5 \mu\text{F}$
		Enclosure	300 A/m; 0, 16.7, 60 Hz 1000 A/m; 50 Hz
Power frequency magnetic field	EN 61000-4-8	Enclosure	300 A/m
Pulsed magnetic field	EN 61000-4-9	Enclosure	20 V/m @ (80 – 2700) MHz
Radiated RF immunity	EN 61000-4-3	Enclosure	1 kHz sine, 80% AM
Conducted RF immunity	EN 61000-4-6	Power port	10 V, 80% AM, 1 kHz; (0.15 – 80) MHz
		Ethernet	
		Status out/Digital in	
		Serial ports	
		Earth port	
Radiated RF emission	EN 55022/ FCC Part 15/ DNV 2.4	Enclosure	Class B / DNV bridge
Conducted RF emission	EN 55022/ FCC Part 15/ DNV 2.4	Power port	Class B / DNV bridge
		Ethernet	Class B
Compass safe distance	DNV 2.4	Enclosure	Standard compass (5.4°/H deviation) = 15 cm Steering/standby steering/emergency compass (18°/H deviation) = 10 cm
Dielectric strength	EN 60950-1	Power port to all other ports	1.5 kVrms, 50 Hz, 1 min
		Ethernet ports to all other ports	
		RS-232 port to all other ports	
		RS-422/485 port to all other ports	

Environmental			
Temperatures		Operating	–40 to +70°C (–40 to +158°F)*
		Storage and transport	–50 to +85°C (–58 to +185°F)
Humidity		Operating	5 to 95 % relative humidity
		Storage and transport	5 to 95 % relative humidity
Altitude		Operating	2 000 m / 70 kPa
MTBF	MIL-C217F2, Parts count	Ground Benign, 25°C (77°F)	499 000 hours
Service life		Operating	10 year
Vibration	IEC 60068-2-6 (sine)	Operating	3 – 13.2 Hz: 1mm 13.2 – 100 Hz: 0.7 g 5.5 – 30 Hz: 1.5 g 30 – 50 Hz: 0.42 mm 50 – 500 Hz: 4.2 g**
	IEC 60068-2-64 (random)		5 – 20 Hz: 2 m²/s³, 20 – 2000 Hz: – 3 dB/oct
Shock	IEC 60068-2-27	Operating	30 g, 11 ms 100 g, 6 ms**
Bump	IEC 60068-2-27	Operating	10 g, 11 ms
Packaging			
Enclosure	EN 60950-1	Zinc	Fire enclosure
Dimension W x H x D			52.5 x 100 x 101 mm
With connectors			52.5 x 119 x 101 mm
Weight			0.7 kg
Degree of protection	EN 60529	Enclosure	IP 40
Cooling			Convection

* Refer to “Safety” section in User Guide.

** Might require Ethernet cables to be fastened close to the unit.

Description

L106-S2/L206-S2 is an Industrial switch and device server made for harsh environments. WeOS is the operating system of L106-S2/L206-S2 enabling the unit to operate in two functional levels. The switch can be used in either 10 or 100 Mbit networks.

Lynx DSS L106-S2/L206-S2 has two serial ports, one that supports RS-232 and the other configurable for RS-232/422/485 as well as serial protocols for interconnection with legacy equipment.

Our unique FRNT (Fast Recovery of Network Topology) technology is the fastest protocol on the market to re-configure a network in the event of any link or hardware failure. That is why our equipment are used in safety critical applications such as tunnels, traffic signal control and railway systems.

Interface specifications

Power	
Operating voltage	Rated: 24 to 48 VDC Operating: 19 to 60 VDC
Rated current	150 mA (300 mA) @ 24 VDC (with 500 mA USB load) 80 mA (150 mA) @ 48 VDC (with 500 mA USB load)
Rated frequency	DC
Inrush current, I^2t	$22.7 \cdot 10^{-3} \text{ A}^2\text{s}$ @ 48 VDC
Startup current*	2 x Rated current
Polarity	Reverse polarity protected
Redundant power input	Yes
Isolation to	All other
Connection	Detachable screw terminal
Connector size	0.2 – 2.5 mm ² (AWG 24 – 12)
Shielded cable	Not required

* External supply current capability for proper start-up

Ethernet TX	
Electrical specification	IEEE std 802.3. 2005 Edition
Data rate	10 Mbit/s, 100 Mbit/s, manual or auto
Duplex	Full or half, manual or auto
Circuit type	TNV-1
Transmission range	Up to 150 m with CAT5e cable or better*
Isolation to	All other
Connection	RJ-45, auto MDI/MDI-X
Cabling	Shielded CAT5e or better is recommended
Conductive housing	Yes
Number of ports	4

* Refer to Safety section.

RS-232	
Electrical specification	EIA RS-232
Data rate	50 bit/s – 115.2 kbit/s
Data format	7 or 8 data bits, Odd, even or none parity, 1 or 2 stop bits
Protocol	Transparent, optimised by packing algorithm
Circuit type	SELV
Transmission range	15 m / 49 ft
Isolation to	All other
Connection	RJ-45 according to EIA-561
Shielded cable	Recommended
Conductive housing	Yes
Number of ports	1

RS-232/422/485		
Electrical specification		Configurable for EIA RS-232 or EIA RS-422/485
Data rate	RS-232	50 bit/s – 115.2 kbit/s
	RS-422/485	50 bit/s – 2 Mbit/s
Data format		7 or 8 data bits, Odd, even or none parity, 1 or 2 stop bits (2 stop bits only when no parity is set)
Circuit type		TNV-1
Transmission range	RS-232	15 m / 49 ft
	RS-422/485	Up to 1200 m / 0.74 mi, depending on data rate and cable type
Isolation to		All other
Connection	RS-232	RJ-45 according to EIA-561
	RS-422/485	RJ-45
Shielded cable	RS-232	Recommended
	RS-422/485	Not required, but recommended in railway installations close to the rails.*
Conductive housing		Yes
Number of ports		1

* To minimise the risk of interference, a shielded cable is recommended when the cable is located inside 3 m boundary or the cable is longer than 30 m and inside 10 m boundary to the rails and connected to this port.

I/O / Relay output	
Maximum voltage/current	60 VDC / 80 mA
Contact resistance	Max 30 Ω
Isolation to	All other
Connection	Detachable screw terminal
Connector size	0.2 – 2.5 mm ² (AWG 24 – 12)

I/O / Digital input	
Maximum voltage/load current	60 VDC / 2 mA
Voltage levels	Logic one: >12V Logic zero: <1V
Isolation to	All other
Connection	Detachable screw terminal
Connector size	0.2 – 2.5 mm ² (AWG 24 – 12)

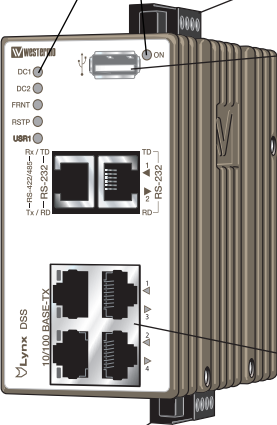
USB	
Electrical specification	USB 2.0 host interface
Data rate	Up to 12 Mbit/s (full-speed mode)
Circuit type	SELV
Maximum supply current	500 mA
Connection	USB receptacle connector type A

Console	
Electrical specification	LVTTTL/LVCMOS-level
Data rate	115.2 kbit/s
Data format	8 data bits, no parity, 1 stop bit, no flow control
Circuit type	SELV
Connection	2.5 mm jack, use only Westermo cable 1211-2027

Location of interface ports and LED's

LED Indicators (for details see page 16)

Power connection (for details see page 9)



I/O connection (for details see page 10)

USB

Position	Direction	Description
No. 1	Out	VBUS
No. 2	In/Out	D-
No. 3	In/Out	D+
No. 4	Out	GND
Shield	In/Out	Connected to protective earth

Ethernet connection TX (4 ports)

Position	Signal	Direction	Description
No.1	TD+	In/Out	Transmitted/Received data
No. 2	TD-	In/Out	Transmitted/Received data
No. 3	RD+	In/Out	Transmitted/Received data
No. 4	-		Not Connected
No. 5	-		Not Connected
No. 6	RD-	In/Out	Transmitted/Received data
No. 7	-		Not Connected
No. 8	-		Not Connected
Shield			Connected to PE

RJ-45 connector (Front view)

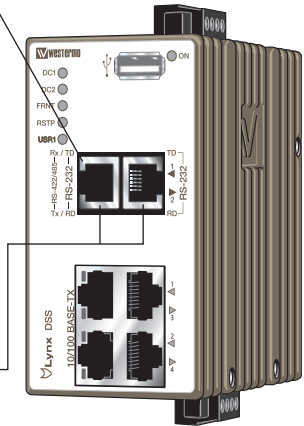
Male	Female

RS-422/485 (for more details see below)

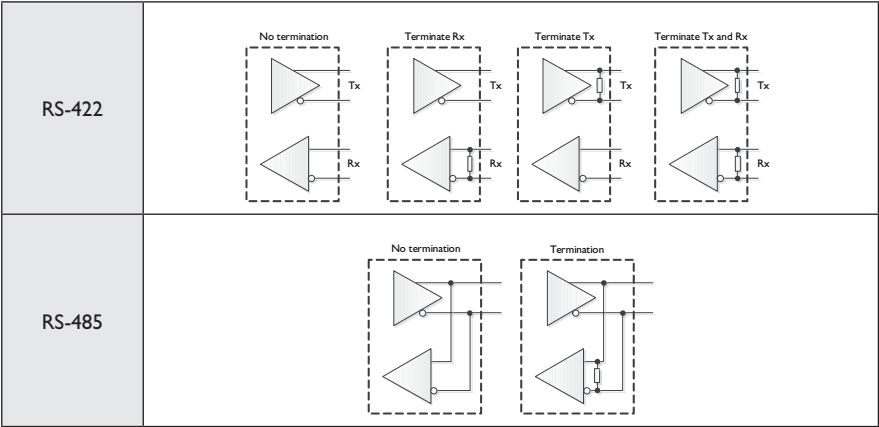
Position	Signal		Direction	Description
	RS-422 (4-wire)	RS-485 (2-wire)		
No. 1	T+	T+/R+	Out/In	RS-422: Transmit RS-485: Transmit/Receive
No. 2	T-	T-/R-	Out/In	RS-422: Transmit RS-485: Transmit/Receive
No. 3	R-	-	In	RS-422: Receive
No. 4	-	-	-	Not used
No. 5	-	-	-	Not used
No. 6	R+	-	In	RS-422: Receive
No. 7	-	-	-	Not used
No. 8	-	-	-	Not used

RS-232

Position	Signal	Direction	Description
No. 1	DSR	Out	Data Set Ready
No. 2	DCD	Out	Data Carrier Detect
No. 3	DTR	In	Data Terminal Ready
No. 4	SG	-	Signal Ground, not chassis ground
No. 5	RD	Out	Receive Data
No. 6	TD	In	Transmit Data
No. 7	CTS	Out	Clear To Send
No. 8	RTS	In	Request To Send

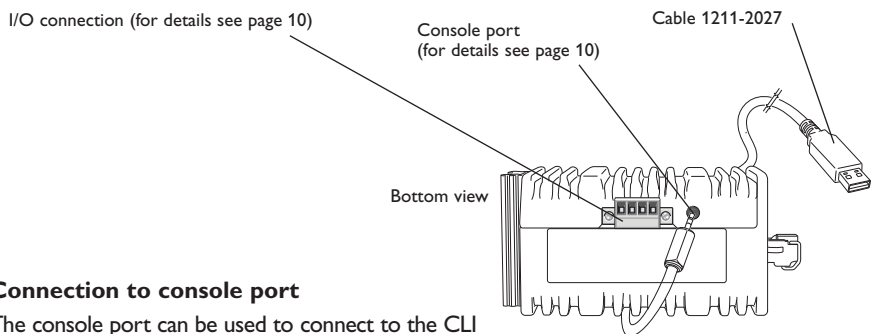


Lynx DSS is equipped with internal termination that is configurable through software in RS-422/485 mode. The following termination schemes are supported:



When the unit is powered-off or during reboot, any internal termination will be disconnected from the signal lines.

Note: Due to that the port is configurable for both RS-232 and RS-422/485, there are no fail-safe biasing available for RS-422/485 signals.



Connection to console port

The console port can be used to connect to the CLI (Command Line Interface).

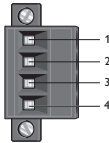
The following steps needs to be taken

1. Connect the serial diagnostic cable to the console port (use only Westermo cable 1211-2027).
2. Connect cable to your computer (USB port, if drivers are needed they can be downloaded from our Web page).
3. Use a terminal emulator and connect with correct speed and format (115200, 8N1) to the assigned port.

For more information about the CLI, see the WeOS management guide.

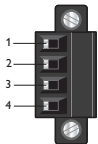
Accessories	
Description	Art no
Westermo console cable	1211-2027
RJ45 to terminal block	1200-2490
RJ45 to DB9 cable	1211-2210

Power connection

	4-position	Product marking	Direction	Description
	No. 1	+DC1	Input	Supply voltage input DC1
	No. 2	+DC2	Input	Supply voltage input DC2
	No. 3	-COM	Input	Common
	No. 4	-COM	Input	Common

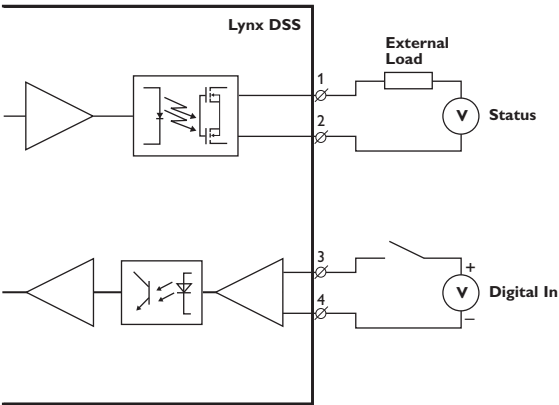
LynxDSS supports redundant power connection. The positive inputs are +DC1 and +DC2, the negative input for both supplies are -COM. Connect the primary voltage (e.g. +24VDC) to the +DC1 pin and return to one of the -COM pins on the power input.

I/O connection

	4-position	Product marking	Direction	Description
	No. 1	Status +	Output	Alarm relay (status) contact
	No. 2	Status -	Output	Alarm relay (status) contact
	No. 3	Digital in +	Input	Digital in +
	No. 4	Digital in -	Input	Digital in -

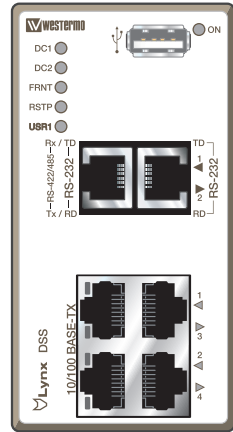
The Status output is a potential free, opto-isolated normally closed solid-state relay. This can be configured to monitor various alarm events within the Lynx DSS unit, see WeOS Management Guide. An external load in series with an external voltage source is required for proper functionality. For voltage/current ratings, see Interface Specification section.

The Digital in is an opto-isolated digital input which can be used to monitor external events. For voltage/current ratings, see Interface Specification section:



LED indicators

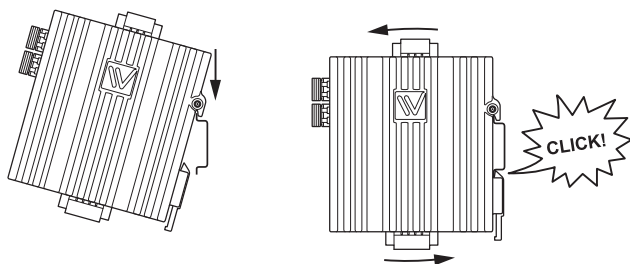
LED	Status	Description
ON	OFF	Unit has no power.
	GREEN	All OK, no alarm condition.
	RED	Alarm condition, or until unit has started up. (Alarm conditions are configurable, see "WeOS Management Guide").
	BLINK	Location indicator ("Here I am!"). Activated when connected to IPConfig Tool, or upon request from Web or CLI.
DC1	OFF	Unit has no power.
	GREEN	Power OK on DC1.
	RED	Power failure on +DC1.
DC2	OFF	Unit has no power.
	GREEN	Power OK on DC2.
	RED	Power failure on +DC2.
FRNT	OFF	FRNT disabled.
	GREEN	FRNT OK.
	RED	FRNT Error.
	BLINK	Unit configured as FRNT Focal Point.
RSTP	OFF	RSTP disabled.
	GREEN	RSTP enabled.
	BLINK	Unit elected as RSTP/STP root switch.
USR1	OFF	Configurable, see WeOS Management Guide.
	GREEN	
	RED	
Rx/TD, TD	OFF	No serial data received.
	GREEN FLASH	Serial data received.
Tx/RD, RD	OFF	No serial data transmitted.
	GREEN FLASH	Serial data transmitted.
1 to 4	OFF	No Link.
	GREEN	Link established.
	GREEN FLASH	Data traffic indication.
	YELLOW	Port alarm and no link. Or if FRNT or RSTP mode, port is blocked.



Mounting

This unit should be mounted on 35 mm DIN-rail, which is horizontally mounted inside an apparatus cabinet or similar. Snap on mounting, see figure.

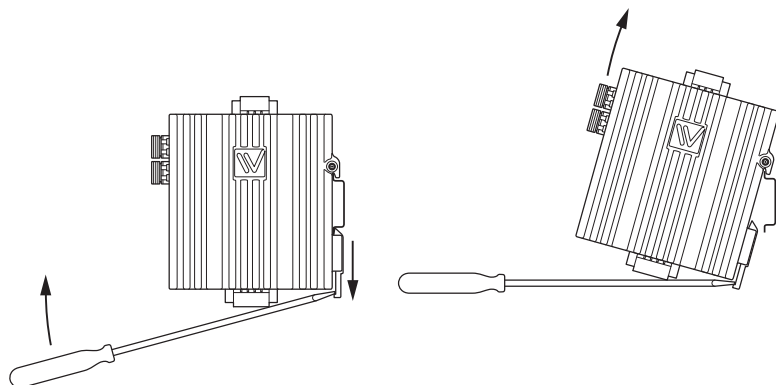
Mounting Lynx with integrated DIN-clip:



Removal

Removing Lynx with integrated DIN-clip:

Press down the support at the back of the unit using a screwdriver. See figure.

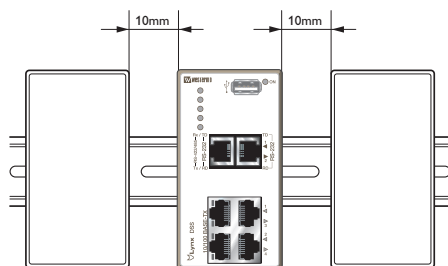


Cooling

This unit uses convection cooling.

To avoid obstructing the airflow around the unit, use the following spacing rules. Minimum spacing 25 mm (1.0 inch) above / below and 10 mm (0.4 inches) left / right the unit.

Spacing is recommended for the use of unit in full operating temperature range and service life.



Getting Started

This product runs Westermo Operating System (WeOS) which provides several management tools that can be used for configuration of the unit.

- **IPConfig tool**

This is a custom Westermo tool used for discovery of attached Westermo units.

Note! Version of IP Config tool must be 10.4.0 or higher.

- **Web**

Configuration of the unit using the web browser.

- **CLI**

Configuration of the unit via the Command Line Interface.

Username: admin

Password: westermo

If the computer is located in the same subnet as the switch you can easily use a web browser to configure the unit. Within the web you can configure most of the available functions.

For advanced network settings and more diagnostic information, please use the CLI. Detailed documentation is available in the chapter "The Command Line Management Tool" in the WeOS management guide.

Factory default	<i>IP address:</i>	192.168.2.200
	<i>Netmask:</i>	255.255.255.0
	<i>Gateway:</i>	Disabled

Note! If you are not sure about the subnet – consult your network administrator.

Configuration

Configure the unit via Web browser

The unit can easily be configured via a Web browser.

Open the link <http://192.168.2.200> in your web browser, and you will be prompted with a Login screen, where the default settings for Username and Password are:

Username: admin

Password: westermo

Once you have logged in, you can use the extensive integrated help function describing all configuration options. Two common task when configuring a new switch is to assign appropriate IP settings, and to change the password of the admin account.

The password can be up to 64 characters long, and should consist of printable ASCII characters (ASCII 33-126); 'Space' is not a valid password character.

Referring documents

Type	Description	Document number
Management Guide	Westermo OS management guide	6101-3201

Factory default on L106-S2 and L206-S2

It is possible to set the unit to factory default settings by using two straight standard Ethernet RJ-45 cables.

1. Power off the switch and disconnect all Ethernet cables (copper and fibre).
 2. Connect one Ethernet cable between Ethernet ports 1 and 4, and the other between Ethernet ports 2 and 3.
The ports need to be connected directly by an Ethernet cable, i.e., not via a hub or switch. Use a straight cable – not a cross-over cable – when connecting the ports.
 3. Power on the unit.
 4. Wait for the unit to start up. Control that the ON LED is flashing red.
The ON LED flashing indicates that the unit is now ready to be reset to factory default. You now have the choice to go ahead with the factory reset, or to skip factory reset and boot as normal.
 - Go ahead with factory reset:
Acknowledge that you wish to conduct the factory reset by unplugging the Ethernet cables. The ON LED will stop flashing.
This initiates the factory reset process*, and the unit will restart with factory default settings. When the switch has booted up, the ON LED will show a green light, and is now ready to use.
 - Skip the factory reset:
To skip the factory reset process, just wait for approximately 30 seconds (after the ON LED starts flashing RED) without unplugging the Ethernet cables.
The switch will conduct a normal boot with the existing settings.
- * **Note** Do not power off the unit while the factory reset process is in progress.



Westermo • SE-640 40 Stora Sundby, Sweden

Tel +46 16 42 80 00 Fax +46 16 42 80 01

E-mail: info@westermo.com

www.westermo.com

Sales Units

Sweden

Westermo Data Communications

Svalgängen 1, Vallbyinstitutet, 724 81 Västerås

Tel: +46 (0) 21 548 08 00 • Fax: (0) 21 35 18 50

info.sverige@westermo.se • www.westermo.se

United Kingdom

Westermo Data Communications

Talisman Business Centre

Duncan Road, Park Gate, Southampton. SO31 7GA

Tel: +44 (0) 1489 580 585 • Fax: +44 (0) 1489 580 586

sales@westermo.co.uk • www.westermo.co.uk

Germany

Westermo Data Communications

Goethe Strasse 67

DE-68753 Waghäusel

Tel: +49 (0) 7254 95400-0 • Fax: +49 (0) 7254-95400-9

info@westermo.de • www.westermo.de

Austria

Westermo Data Communications

Tel: +43 (0) 72030 3920 • Fax: +43 (0) 2235 86131

info@westermo.at • www.westermo.at

France

Westermo Data Communications

Bat. A, 9 Chemin de Chilly

FR-91160 Champlan

Tel: +33 1 69 10 21 00 • Fax: +33 1 69 10 21 01

infos@westermo.fr • www.westermo.fr

Singapore

Westermo Data Communications

2 Soon Wing Road #08-05,

Soon Wing Industrial Building

Singapore 347893

Tel: +65 6743 9801 • Fax: +65 6745 0670

sales@westermo.com.sg • www.westermo.com.sg

North America

Westermo Data Communications

939 N. Plum Grove Road, Suite F,

IL 60173 Schaumburg, USA

Tel: +1 847 619 6068 • Fax: +1 847 619 66 74

info@westermo.com • www.westermo.com

Taiwan

Westermo Data Communications

F2, No. 188, Pao-Chiao Rd. Shing-Tien City,

Taipei 23145

Tel: +886 2 8911 1710

sales.cn@westermo.com • www.cn.westermo.com

China

Westermo Data Communications

2F Building B

No.1618 Yishan Road

Shanghai 201103

Tel: +86 21 6145 0400 • Fax: +86 21 6145 0499

sales.cn@westermo.com • www.cn.westermo.com

Westermo Teleindustri AB have distributors in several countries, contact us for further information.