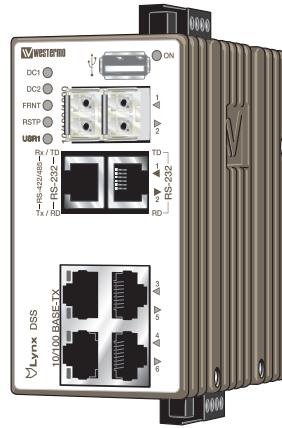


User Guide  
6643-2220



# Lynx DSS

L108 / L208-F2G-S2



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

[www.westermo.com](http://www.westermo.com)

## Safety



### Warning

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

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.

*For more information see General safety 100-5001.*



## Software tools

Related software tools are available in the folder software tools under technical support on the Westermo website.

## 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>

## 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 unused 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 <sup>1</sup>	
Ethernet device server switch	Lynx DSS	L*08-F2G-S2*

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

No	Short name
2004/108/EC	Electromagnetic Compatibility (EMC)
2011/65/EU	Restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

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
EN 61000-6-4	Electromagnetic compatibility – Emission for industrial environments	2007
EN 55024	Information technology equipment - Immunity	1998 +A1:2001 +A2:2003
EN 55022	Information technology equipment - Emission	2006 +A1:2007
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: 13

Signature

Pierre Öberg  
Technical Manager  
18<sup>th</sup> Mars 2013

<sup>1</sup> The first “\*” in the model name can be any alphanumeric character, indicating software version. The second “\*” in the model name can be any alphanumeric characters indicating customer specific models, or blank.

Postadress/Postal address	Tel.	Telefax	Postgiro	Bankgiro	Org.nr/ Corp. identity number	Registered office
S-640 40 Stora Sundby Sweden	016-428000 Int+46 16428000	016-428001 Int+46 16428001	52 72 79-4	5671-5550	556361-2604	Eskilstuna

## Product description

Status	Active
Ports	6 x RJ-45, 10/100BaseT. 4 x SFP, 100/1000 Mbit/s. 2 x RJ-45, RS-232/422/485.
Description	Managed Device Server Switch with routing functionality
Warranty period	5 years

Approvals	
Marine	DNV Standard for Certification no. 2.4
EMC (Electromagnetic Compatibility)	
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
EMC specifications	
EN 61000-4-2, ESD	Contact: $\pm 6$ kV Air: $\pm 8$ kV
EN 61000-4-4, fast transients	Power port: $\pm 2$ kV Ethernet: $\pm 2$ kV Status out/Digital in: $\pm 2$ kV Serial ports: $\pm 2$ kV Enclosure: $\pm 2$ kV
EN 61000-4-5, surge	Power port L-L: $\pm 0.5$ kV, $2 \Omega$ , $18 \mu\text{F}$ L-E: $\pm 2$ kV, $42 \Omega$ , $0.5 \mu\text{F}$ L-L: $\pm 1$ kV, $42 \Omega$ , $0.5 \mu\text{F}$ L-E: $\pm 2$ kV, $12 \Omega$ , $9 \mu\text{F}$ L-L: $\pm 1$ kV, $12 \Omega$ , $9 \mu\text{F}$  Ethernet L-E: $\pm 2$ kV, $2\Omega$ , $0.5 \mu\text{F}$ Status out/Digital in L-E: $\pm 2$ kV, $42 \Omega$ , $0.5 \mu\text{F}$ L-L: $\pm 1$ kV, $42 \Omega$ , $0.5 \mu\text{F}$  RS-232 L-E: $\pm 2$ kV, $2 \Omega$ , $0.5 \mu\text{F}$ RS-422/485 L-E: $\pm 2$ kV, $42 \Omega$ , $0.5 \mu\text{F}$
EN 61000-4-8, power frequency magnetic field	300 A/m; 0, 16.7, 60 Hz 1000 A/m; 50 Hz

EN 61000-4-9, pulsed magnetic field	300 A/m
EN 61000-4-3, radiated RF immunity	20 V/m @ (80 – 2700) MHz 1 kHz sine, 80% AM
EN 61000-4-6, conducted RF immunity	Power port: 10 V, 80% AM, 1 kHz; (0.15 – 80) MHz Ethernet: 10 V, 80% AM, 1 kHz; (0.15 – 80) MHz Ethernet: 10 V, 80% AM, 1 kHz; (0.15 – 80) MHz Status out/Digital in: 10 V, 80% AM, 1 kHz; (0.15 – 80) MHz Status out/Digital in: 10 V, 80% AM, 1 kHz; (0.15 – 80) MHz Serial ports: 10 V, 80% AM, 1 kHz; (0.15 – 80) MHz Earth port: 10 V, 80% AM, 1 kHz; (0.15 – 80) MHz
EN 55022, radiated RF emission, FCC Part 15/ DNV 2.4	EN 55022/FCC Part 15/DNV 2.4, Class B / DNV bridge
EN 55022, conducted RF emission,	EN 55022/FCC Part 15/DNV 2.4, Class B / DNV bridge
DNV 2.4, compass safe distance	Standard compass (5.4°/H deviation) = 15 cm Steering/standby steering/emergency compass (18°/H deviation) = 10 cm
<b>Safety</b>	
Safety	UL/IEC/EN 60950-1, IT equipment
EN 60950-1, dielectric strength	Power port to all other ports: 1.5 kVrms, 50 Hz, 1 min Ethernet ports to all other ports: 1.5 kVrms, 50 Hz, 1 min RS-232 port to all other ports: 1.5 kVrms, 50 Hz, 1 min RS-422/485 port to all other ports: 1.5 kVrms, 50 Hz, 1 min
<b>Reliability prediction</b>	
MTBF, operating	517 000 hours
Service life, operating	10 years
<b>Climatic</b>	
Temperature, operating	–40 to +70°C (–40 to +158°F)
Temperature, storage	–50 to +85°C (–58 to +185°F)
Humidity, operating	5 to 95 % relative humidity
Humidity, storage	5 to 95 % relative humidity
<b>Enclosure</b>	
Enclosure	Fire enclosure
Dimensions (W x H x D)	52.5 x 100 x 101 mm
Weight	0.7 kg
Degree of protection	IP 40
Cooling	Convection
Mounting	Horizontal on 35 mm DIN-rail

<b>Mechanical</b>	
IEC 60068-2-6, 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), operating 5 – 20 Hz: 2 m <sup>2</sup> /s <sup>3</sup> , 20 – 2000 Hz: – 3 dB/oct
IEC-60068-2-27, shock	Operating: 30 g, 11 ms 100 g, 6 ms <sup>**</sup>
IEC 60068-2-27, bump	Operating: 10 g, 11 ms
<b>Interface specifications, power</b>	
Rated voltage	24 to 48 VDC
Operating voltage	19 to 60 VDC
Rated current	250 mA (380 mA) @ 24VDC (with 500 mA USB load) 120 mA (188 mA) @ 48VDC (with 500 mA USB load)
Rated frequency	DC
Inrush current	22.7-10-3 A <sup>2</sup> s @ 48 VDC
Startup current <sup>*</sup>	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 <sup>2</sup> (AWG 24 – 12)
Shielded cable	Not required
* External supply current capability for proper start-up	
<b>Interface specifications, 10/100BaseTX</b>	
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 <sup>*</sup>
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.	

<b>Interface specifications, 100/1000SFP</b>	
Optical/Electrical specification	IEEE std 802.3. 2005 Edition
Data rate	100 Mbit/s or 1000 Mbit/s transceivers supported
Duplex	Full or Auto, depending on transceiver
Transmission range	Depending on transceiver
Connection	SFP slot holding fibre transceiver or copper transceiver
Number of ports	1 or 2
<b>Interface specifications, RS-232</b>	
Electrical specification	EIA RS-232
Data rate	300 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
<b>Interface specifications, RS-422/485</b>	
Electrical specification	Configurable for EIA RS-232 or EIA RS-422/485
Data rate	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	Up to 1200 m / 0.74 mi, depending on data rate and cable type
Isolation to	All other
Connection	RJ-45 according to EIA-561
Shielded cable	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.	



<b>Interface specifications, I/O relay output</b>	
Maximum voltage / current	60 VDC / 80 mA
Connect resistance	Max 30 $\Omega$
Isolation to	All other
Connection	Detachable screw terminal
Connector size	0.2 – 2.5 mm <sup>2</sup> (AWG 24 – 12)
<b>Interface specifications, I/O Digital output</b>	
Maximum volt / 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 <sup>2</sup> (AWG 24 – 12)
<b>Interface specifications, USB</b>	
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
<b>Interface specifications, console</b>	
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
<b>Accessories</b>	
Description	Art no
Westermo console cable	1211-2027
RJ45 to terminal block	1200-2490
RJ45 to DB9 cable	1211-2210

## SFP Transceivers

### Supported transceivers

Firmware prior to 4.4.0 accepts Westermo branded transceivers only. From 4.5.0 other transceivers are accepted with a notice and the unit will no longer be UL approved. Temp.specifications are also depending on the used transeivers.

**Note:** To comply with UL60950-1 only UL recognized SFP transceivers should be used.

### Deviations

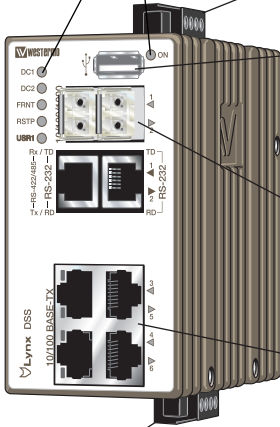
With *copper transceiver* 1100-0148 the specified operating temperature on Lynx is 0 to +50°C (32 to +122°F).

FRNT reconfiguration times can not be guaranteed with copper transceivers.

# Location of interface ports and LED's

LED Indicators (for details see page 14)

Power connection (for details see page 7 and 13)



## 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

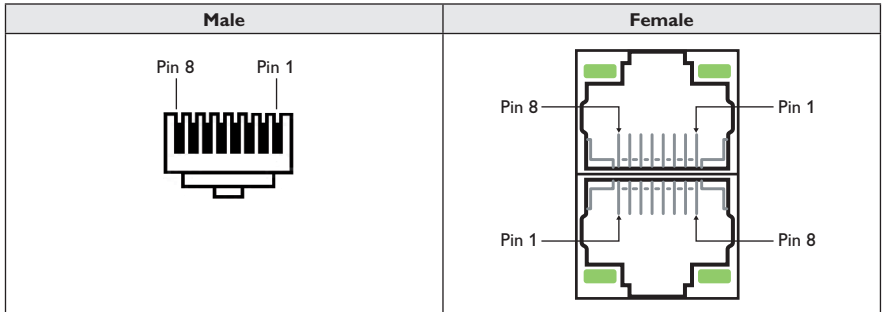
SFP transceivers (for details see page 9)

## 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

I/O connection  
(for details see page 9 and 13)

## RJ-45 connector (Front view)

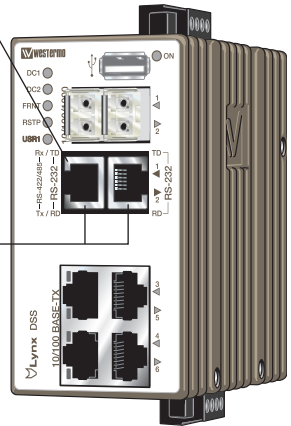


**RS-422/485** (for more details see below)

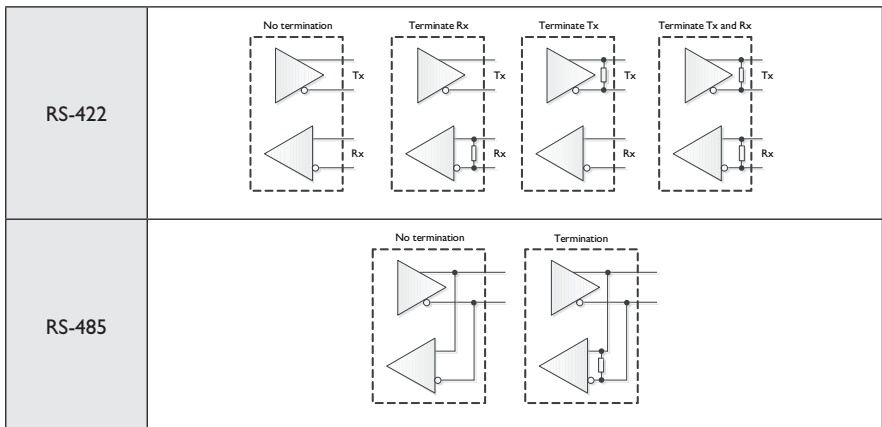
Position	Signal		Direction	Description
	RS-422 (4-wire)	RS-485 (2-wire)		
No. 1	T+	T+/R+	Out/In	RS-422: Transmit RS-485: Transmit/Receive
No. 2	T-	T-/R-	Out/In	RS-422: Transmit RS-485: Transmit/Receive
No. 3	R-	-	In	RS-422: Receive
No. 4	-	-	-	Not used
No. 5	-	-	-	Not used
No. 6	R+	-	In	RS-422: Receive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

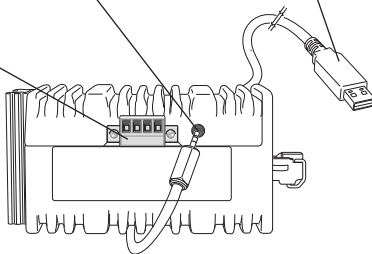
**Note:** Due to that the port is configurable for both RS-232 and RS-422/485, there are no fail-safe biasing available for RS-422/485 signals.

I/O connection (for details see page 9)

Console port  
(for details see page 9)

Cable 1211-2027

Bottom view



### Connection to console port

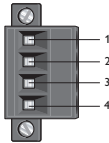
The console port can be used to connect to the CLI (Command Line Interface).

#### 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.

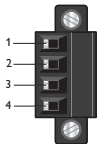
*For more information about the CLI, see the WeOS management guide.*

## Power connection

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

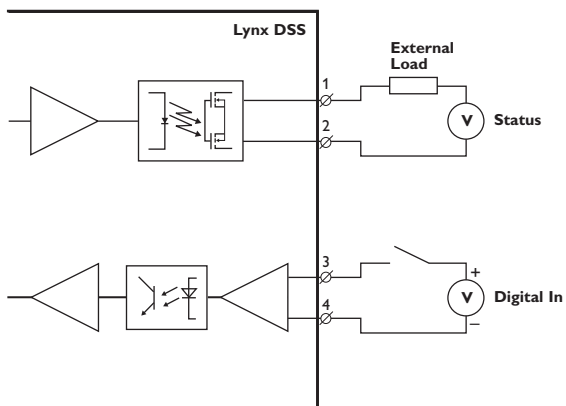
LynxDSS supports redundant power connection. The positive inputs are +DC1 and +DC2, the negative input for both supplies are -COM. Connect the primary voltage (e.g. +24VDC) to the +DC1 pin and return to one of the -COM pins on the power input.

## I/O connection

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

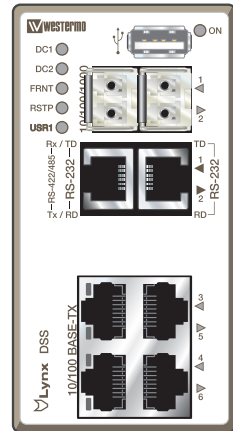
The Status output is a potential free, opto-isolated normally closed solid-state relay. This can be configured to monitor various alarm events within the Lynx DSS unit, see WeOS Management Guide. An external load in series with an external voltage source is required for proper functionality. For voltage/current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

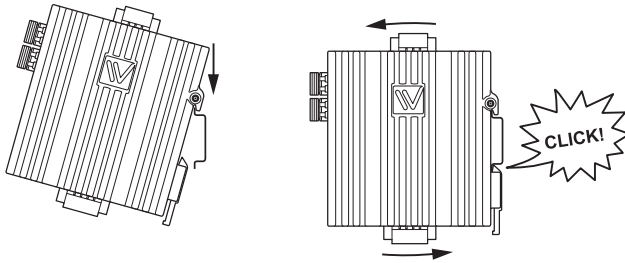
LED	Status	Description
ON	OFF	Unit has no power.
	GREEN	All OK, no alarm condition.
	RED	Alarm condition, or until unit has started up. (Alarm conditions are configurable, see "WeOS Management Guide").
	BLINK	Location indicator ("Here I am!"). Activated when connected to IPConfig Tool, or upon request 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 6	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. It is recommended that the DIN-rail is connected to ground. Snap on mounting, see figure.

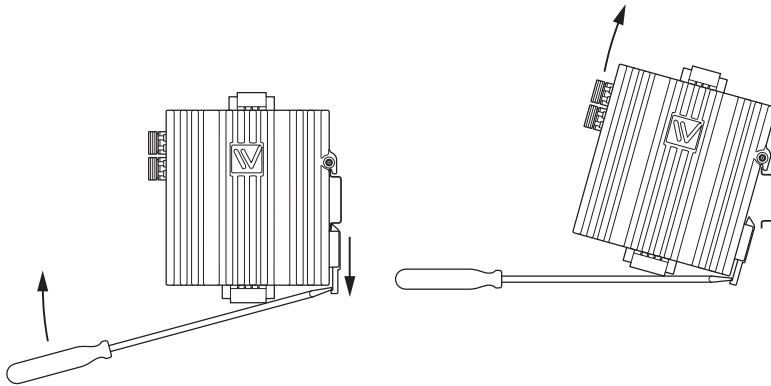
Mounting Lynx with integrated DIN-clip:



## Removal

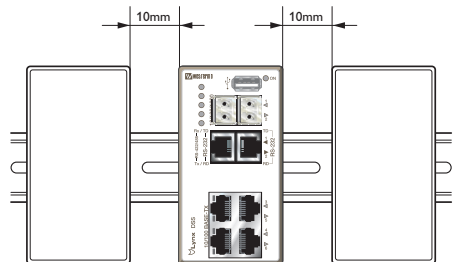
Removing Lynx with integrated DIN-clip:

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    *IP address:*    192.168.2.200  
                          *Netmask:*        255.255.255.0  
                          *Gateway:*        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 Lynx DSS

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 3 and 6, and the other between Ethernet ports 4 and 5.

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 after approximately 1 minute 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](mailto:info@westermo.com)  
[www.westermo.com](http://www.westermo.com)

## Sales Units

### Westermo Data Communications

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#### China

[sales.cn@westermo.com](mailto:sales.cn@westermo.com)  
[www.cn.westermo.com](http://www.cn.westermo.com)

#### France

[infos@westermo.fr](mailto:infos@westermo.fr)  
[www.westermo.fr](http://www.westermo.fr)

#### Germany

[info@westermo.de](mailto:info@westermo.de)  
[www.westermo.de](http://www.westermo.de)

#### North America

[info@westermo.com](mailto:info@westermo.com)  
[www.westermo.com](http://www.westermo.com)

#### Singapore

[sales@westermo.com.sg](mailto:sales@westermo.com.sg)  
[www.westermo.com](http://www.westermo.com)

#### Sweden

[info.sverige@westermo.se](mailto:info.sverige@westermo.se)  
[www.westermo.se](http://www.westermo.se)

#### United Kingdom

[sales@westermo.co.uk](mailto:sales@westermo.co.uk)  
[www.westermo.co.uk](http://www.westermo.co.uk)

#### Other Offices



*For complete contact information, please visit our website at [www.westermo.com/contact](http://www.westermo.com/contact) or scan the QR code*