Lantic YCS Server

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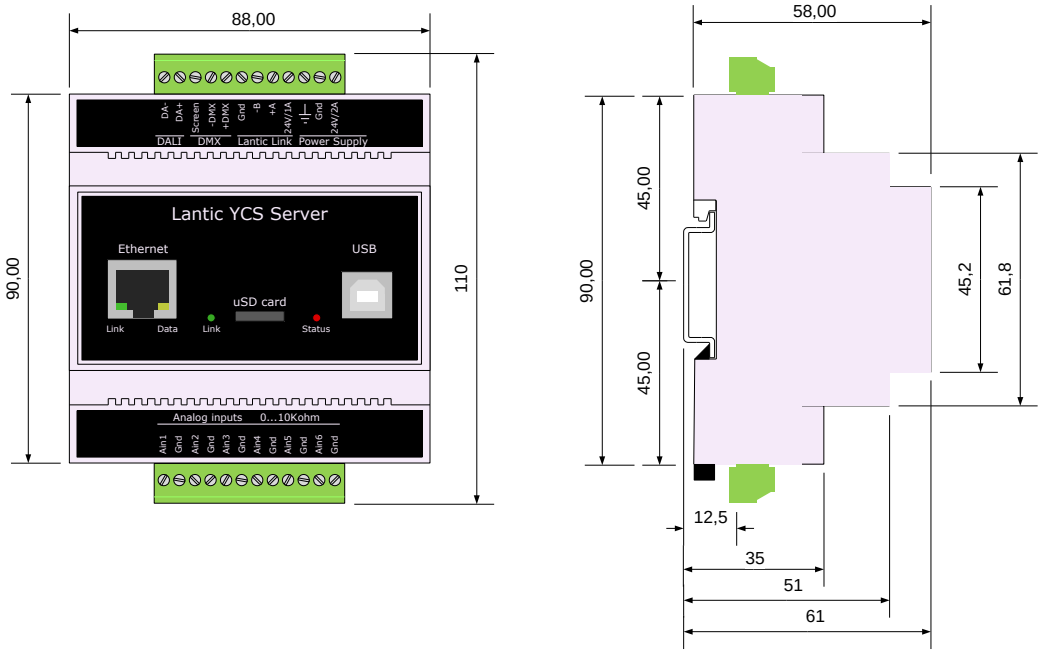
Specifications:

Network:	
- Ethernet port	10/100 Mbps. (RJ45).
USB:	
- USB port (for factury program purpose)	USB 2.0 - 480 Mbit/s. (USB Type A).
SD Card:	
- SD Card slot (for program storage)	Micro SD 2GB. (non HC)
Status LED:	Red indicator in front panel (Blinks when YCS Server is running).
Screw terminals:	Green terminals (included).
Power supply:	
- Supply	24VDC. (Minimum 500mA. supply current required to source worst case scenario).
- Consumption	~ 1.0W. (YCS Server with no other equipment connected).
Temperature:	
- Maximum ambient temperature	<40°C.
Weight:	~ 0,15 Kg.
Typical Heat generation:	< 1.0W.
Mechanical dimensions:	
- Dimensions	88 x 90 x 58 mm. (WxHxD).
- DIN rail mounting	Required mounting space 88 x 150 x 80 mm. (WxHxD).



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Interface details:

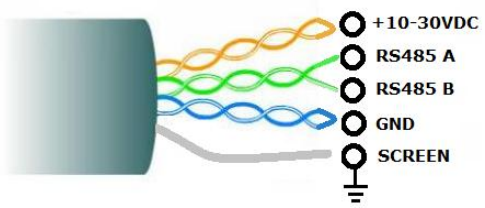
Ethernet RJ45 connection:

Communicating with Lantic Entertainment centers.
Communicating with Central command Software.
Communicating with YCS Service Tool that enables firmware Upload and configuration.

Cable type: Category 5 cable (Cat 5).
Connection: Autosensing - 10/100 mbps.

Lantic link:

Communicating and supplying 24V DC to Curtain/Quad relays and OLED KP1.
(Up to 9 Curtain/Quad relays and 10 OLED KP1.)
Selectable 120ohm link-termination resistor via a jumper. (Default connected).
Cable type: Screened twisted pair.
Maximum length: 100 meters between YCS Server and the last unit on the link.
Connection: 4 Wire + screen. As picture below. Connect screen to "GND" on the YCS server side and leave it unconnected on the remaining units on the link (OLED´s and relays YCS-RL). Connect a 120ohm resistor between RS485 A and RS485 B on the last unit on the link.



DALI link: (Digital Addressable Lighting Interface)

DALI link: Up to 10 Dali groups with up to 64 addressable units.
Selectable built-in link power supply via jumper. (Default connected).
Cable type: 2 Wire cable – no special requirements.
Connection: A separate bus cable is not needed for installing DALI. For example a single 5-core cable can handle DALI and mains power supply at the same time.

DMX link: (Lighting interface)

DMX link: Up to 32 DMX addresses. Default available DMX addresses is 22. When DMX address count is increased the Dali gropus will then be reduced by equal amount.
Cable type: DMX cable (Nominal characteristic impedance of 120 ohms).
Connection: 2 Wire + screen. Connect screen to "Screen" on the YCS server side and leave it unconnected on the remaining units on the link. A 120 ohm termination resistor should be connected in both ends of the cable. (YCS Server and last DMX driver/unit).

Digital / Analog inputs: Used for wall switches and controls

Inp 1-6: Digital dry contact.
(up to 6 groups of 6 keys = 36 keys in total, via MPX breakout units.)

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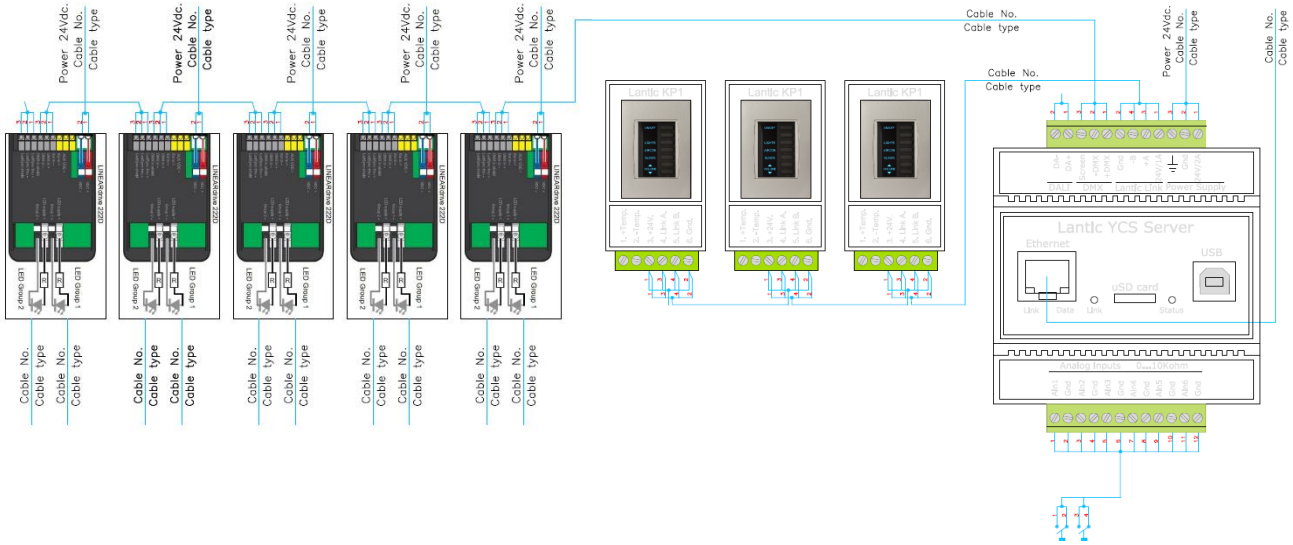
Example of Instalation and wireing:



Declaration of conformity:

Hereby Lantic Entertainment Systems ApS declares that this product is in compliance with the essential requirements of the:
IEC 60533 ed.2:1999-11 Electromagnetic compatibility (EMC)
Electrical and electronic installations in ships – Electromagnetic compatibility

The following standards were applied:

EMC: **IEC 60533 ed.2** Electromagnetic compatibility (EMC)
Electrical and electronic installations in ships – Electromagnetic compatibility.

IEC 60533 ed.2: APR: 1999-11-16

The product carries the CE mark: CE

Date and place of Issue: 2013-04-27, Aarhus.

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Troubleshooting:

Fault scenarios	Behaviour for the light connected to YCS 3rd gen server	Emergency Light	Action to be taken.
Power failure – No 24VDC supply to YCS Server	No possible to operate light from any button or controller. DALI light: All light will as default switch on and stay on when YCS Server is powered again. DMX light: Depending on third party product. Most common behavior: All light will stay at the current level. When power is back on the light will go off.	Emergency light will need to be handled by a separate system.	SNMP alarm software will be triggered. Power should be re-established to YCS Server.
Network disconnected	No impact on current Light level. Light can still be controlled from the OLED keypads and wall switches. Light cannot be controlled from iPod/iPad or Entertainment.	Light can still be controlled from the OLED keypads and wall switches.	SNMP alarm software will be triggered. Network should be re-established to the YCS Server.
Defect YCS server	Network defect: Light cannot be controlled from iPod/iPad or Entertainment. Not possible remotely to service YCS Server via Service Tool. Light controller(s) engine defect: Not possible to control light.	Emergency light might need to be handled by a separate system.	SNMP alarm software will in 90% of the cases be triggered. YCS server should be serviced via Service Tool and in some case be re-placed.
SD card removed/defect.	No impact on current Light level. Light can still be controlled from the OLED keypads and wall switches. Light cannot be controlled from iPod/iPad or Entertainment.	Light can still be controlled from the OLED keypads and wall switches.	SNMP alarm software will be triggered. SD card should be inserted or replaced.
Light driver defect.	DMX or DALI driver defect: Will only have an effect on the light connected to the actual driver.	Normally not necessary. If only one driver is utilized emergency light will need to be handled by a separate system.	Driver need to be re-placed.
Configuration is by mistake cleared via Service Tool.	Default the two upper buttons on the OLED keypad can operate all light. Default button input 1 one the YCS Server can operate all light.	Light can still be controlled from the OLED keypads and wall switches.	SNMP alarm software will not be triggered. Configuration should once more be downloaded via Service Tool.
Lantic link A and B short circuit.	Not possible to operate DMX or Dali lights from OLED KP1 or buttons. Light stays on same level for both DMX and Dali.	Emergency light will need to be handled by a separate system.	SNMP alarm software will not be triggered. Configuration should once more be downloaded via Service Tool.
Dali link short circuit.	Lights will always turn on.	Emergency light might need to be handled by a separate system.	Remove short circuit and the YCS will properly operate normal again. Attention, this can damage the YCS server
DMX link short circuit.	A connected to B. Depending on third party product. In some cases DMX flashes randomly if off but it is possible to control both DMX and Dali. A or B connected to screen – Not possible to control DMX but Dali working.	Emergency light might need to be handled by a separate system.	Remove short circuit and the YCS will operate normal again.