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LDsystems XECI Ethernet Control Interface Card Instruction Manual

USER´S MANUAL

XECI
ETHERNET CONTROL INTERFACE CARD FOR IPA SERIES LDXECI
Expansion module with Ethernet control interface for LD IPA installation power amplifiers.

Contents

INTENDED USE

This item is a product-specific accessory that is only intended for use with the LD Systems IPA installation power amplifier. These assembly instructions do not replace the operating instructions for the associated product. Always read the relevant operating instructions first. This accessory does not affect the intended use of the associated product. Observe the safety instructions in the operating instructions for the associated product! The technical data shown in the operating instructions can change in connection with this accessory item.

SAFETY INSTRUCTIONS

1. Please read these instructions carefully.

2. Keep all information and instructions in a safe place.

3. Follow the instructions.

4. Only use the accessories in the manner intended.

⚠️ **CAUTION:** The installation of the expansion module may only be carried out by qualified personnel. If you are not qualified to do so, do not attempt to install the extension module yourself, but use the help of professional companies! Make sure that no foreign bodies get into the housing!
DANGER: KEEP AWAY FROM CHILDREN! THE PRODUCT CONTAINS SMALL PARTS THAT CAN BE SWALLOWED AND PACKAGING MATERIAL THAT CAN BE SWALLOWED! PLASTIC BAGS MUST BE KEPT OUT OF REACH OF CHILDREN!

SCOPE OF DELIVERY

Remove the product from the packaging and remove all packaging material.
Please check that the delivery is complete and intact and please notify your distributor immediately after purchase if the delivery is not complete or damaged. The scope of delivery of the product includes:

- 1x XECI extension module

- Assembly instructions

ASSEMBLY

1. Disconnect the power amplifier completely from the mains (pull out the mains plug)!

2. Loosen and remove the four screws from the cover of the expansion slot using a suitable tool (see markings in

the illustration). Keep the cover for later conversion.

3. Slide the expansion module into the expansion slot, making sure that the contact strip of the module slides correctly into the connection strip of the power amplifier. Asymmetrically mounted guide pins on the module's plate ensure that the module cannot be installed the wrong way round **A** .

4. Now screw the module to the power amplifier housing using the screws previously loosened from the expansion slot cover.

CONNECTIONS, CONTROLS AND INDICATORS
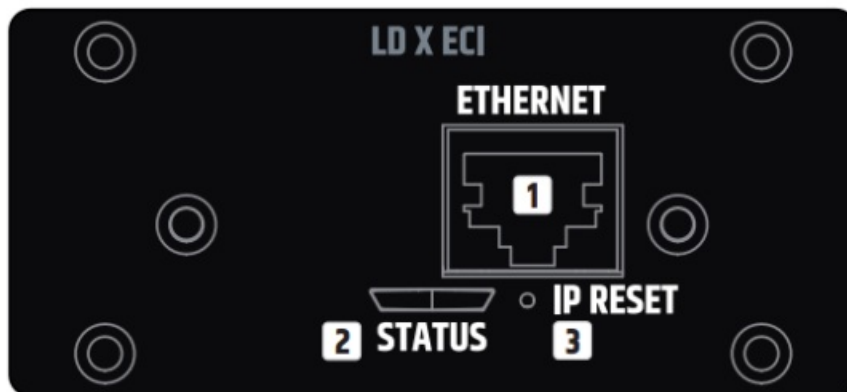
1. **ETHERNET**

   Ethernet interface for controlling the installation amplifier via the free QUESTRA software.

2. **STATUS**

   The status LED provides information about the internal integration between the card and the main board in the IPA power amplifier (firmware compatibility, internal communication problems):

   • White flashing during start-up. The unit is loading the data for IPA.

   • Permanently white: The network stack in the card is ready – The IP settings have been configured properly.

   • Permanent red – Firmware is not compatible with motherboard, problems with network stack.

   • White flashing (slow/fast) during IP reset procedure.

3. **IP RESET**

   Long press activates the IP reset procedure. Initially, the status LED flashes slowly in white and when the button is pressed for 5 seconds, the status LED flashes quickly to indicate that the IP reset procedure will be carried out after the button is released. The device will obtain the default IP address, which is 192.168.0.192 with a subnet mask of 255.255.255.0.

   Activating DHCP Mode: To switch to DHCP mode, follow these steps with the unit powered ON: press the IP Reset button 5 times within a 10-second window. This action will change the network settings from the default static-IP mode to DHCP mode. In DHCP mode, the unit obtains an IP address from a connected DHCP server

on the network. If no DHCP server is available on the network, the unit will acquire an APIPA IP address, which falls within the range of 169.254.0.1 to 169.254.255.254, along with a subnet mask of 255.255.0.0. After the 5th press, the unit will initiate a reboot, during which the status LED will begin to flash slowly. Once the booting process is finished and the IP settings have been applied properly, the status LED will light up permanently in white.

NETWORK CONNECTION
LD Systems' XECI module enables remote control of compatible devices, such as IPA series amplifiers, over the network. Once the XECI module is built into a device, it can be connected to a network infrastructure and controlled via a computer running LD Systems QUESTRA software.

PREREQUISITES FOR OPERATION

- Computer with QUESTRA software installed
- Network interface (router, switch) with activated multicast traffic to enable device discovery process in QUESTRA software via mDNS protocol (It is recommended to activate IGMP protocol for proper multicast traffic management).
- Ethernet cable. Use a standard RJ45 Ethernet cable (Cat 5e or better) for all wired connections.


FIRST STEPS
The XECI modules are delivered with a pre-configured static IP address (192.168.0.192) as standard. To be able to recognise the unit with the Questra software, please make sure that the IP settings of the computer on which the Questra software is installed are configured in the same network range as the XECI modules. See notes below.

- IP range : 192.168.0.X/24 (where X can be any value between 1 and 254, except 192 which is already used by default by the XECI modules)
- Network mask : 255.255.255.0

Once a device with a XECI module is connected to a network and switched on, it will appear under the AVAILABLE DEVICES section in the ADD DEVICES field on the left. Please note that multicast traffic must be enabled in the switch/router for the device to be detected.
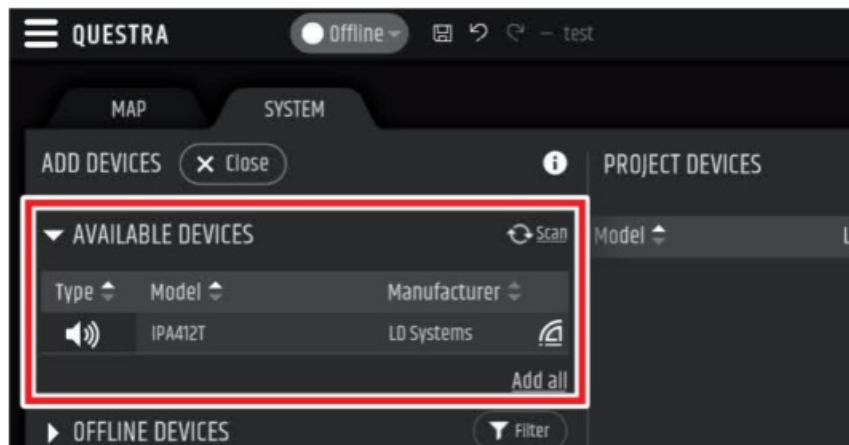
Drag and drop the device into the **PROJECT DEVICES** area to be able to configure it. Then click the Offline button at the top of the screen and select **Download** from Devices and connect to connect to the device.
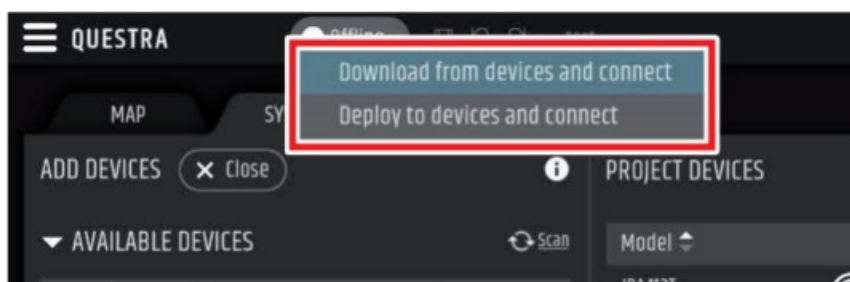
Once the unit is online, click on the unit in the **PROJECT DEVICES** list and select the **SETTINGS** menu on the right to go directly to the settings menu and change the IP settings of the unit. For more details about the complete unit configuration with the **QUESTRA** software, please download the latest version from the LD Systems website (**www.ld-systems.com**) to your computer and read the user manual.

QUESTRA SOFTWARE
The Questra software not only enables comprehensive configuration of compatible devices, such as IPA Series amplifiers, but also provides integration capabilities for third-party remote control units and allows users to create their own custom control panels that can be controlled via the Questra remote control apps available for iOS, Android, Windows and MAC OS.
Please download the latest version of the QUESTRA software from the LD Systems website (**www.ld-systems.com**) to your computer, check the system requirements for the software and follow the software instructions to start configuring a unit.

TECHNICAL DATA

Article number	LDXECI
Product type	Expansion Card to add Ethernet control
Compatibility	LD IPA installation power amplifiers
Control element	Button for IP reset
Application software	QUESTRA (free download)
Display elements	RJ45 LEDs: Link / Activity 2-colour LED for internal connection status
Dimensions (W × H × D)	82.5 × 36.5 × 76.3 mm
Weight	50 g
Ethernet	
Interface	RJ45
Chip	STM32H743
Transmission protocol	TCP/IP & UDP
Ethernet Standard	10/100 Base-T
Parallel connections	4
Power consumption	1,075 W (Link Down), 1,375 W (Link Up)
Indications	
Rear Panel	RJ45 LEDs: Link / Activity Status LED: internal connection status
Software Application	
QUESTRA ® (free download)	

DISPOSAL

 PACKAGING :

1. Packaging can be disposed of via the usual waste disposal channels.
2. Please separate the packaging according to the waste disposal and materials regulations in your country.

 DEVICE :

1. This device is subject to the European Directive on Waste
   Electrical and Electronic Equipment in its applicable version.
   WEEE Directive-Waste Electrical and Electronical Equipment. Old devices and batteries do not belong in household waste. The old device or batteries must be disposed of via an approved waste disposal service or a municipal waste disposal facility. Follow the directives in your country!
2. Follow the disposal laws in your country.

3. As a private customer, you can obtain information on environmentally friendly disposal options from the retailer from whom you purchased the product or from the relevant regional authorities.

MANUFACTURER´S DECLARATIONS
MANUFACTURER'S WARRANTY & LIMITATION OF LIABILITY
Adam Hall GmbH, Adam-Hall-Str. 1, 61267 Neu Anspach, Germany
E-mail **Info@adamhall.com** / +49 (0)6081 / 9419-0.
Our current warranty conditions and limitation of liability can be found at:
https://cdn-shop.adamhall.com/media/pdf/MANUFACTURERS-DECLARATIONS_LD_SYSTEMS.pdf.
Contact your distribution partner for service.
UKCA-CONFORMITY
Hereby, Adam Hall Ltd. declares that this product meets the following guidelines (where applicable) Electrical Equipment (Safety) Regulations 2016
Electromagnetic Compatibility Regulations 2016 (SI 2016/1091)
The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulation 2012 (SI 2012/3032)
Radio Equipment Regulations 201 7(SI 2016/2015)
UKCA-DECLARATION OF CONFORMITY
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Adam Hall GmbH hereby confirm that this product meets the following guidelines (where applicable):
Low-Voltage Directive (2014/35/EU)
EMC Directive (2014/30/EU)
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RED (2014/53/EU)
CE DECLARATION OF CONFORMITY
Declarations of conformity for products subject to the LVD, EMC, RoHS Directive can be requested from
info@adamhall.com.
Declarations of conformity for products subject to RED can be downloaded from
www.adamhall.com/compliance/.

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Documents / Resources

LDsystems XECI Ethernet Control Interface Card [pdf] Instruction Manual
XECI Ethernet Control Interface Card, XECI, Ethernet Control Interface Card, Control Interface Card, Interface Card, Card

References

- ⓘ **Eventtechnik Lösungen | Adam Hall Group**
- LD **LD Systems® | Your Sound. Our Mission.**
- ⓘ **Downloads | Service | Adam Hall Shop**
- LD **LD Systems® | Your Sound. Our Mission.**
- **User Manual**