

ECU-P1522LPE 2-Port SFP HSR/PRP Card with Low Profile PCI Express

Startup Manual



Packing List

Before installation, please make sure that you have received the following:

- ECU-P1522LPE card
- Quick Start User Manual

If anything is missing or damaged, contact your distributor or sales representative immediately.

For more detailed information on this product, please refer to the ECU-P1522LPE User Manual on the Website (PDF format).

Declaration of Conformity

FCC Class A

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause interference in which case the user is required to correct interference at his own expense.

CE

This product has passed the CE test for environmental specifications when shielded cables are used for external wiring. We recommend the use of shielded cables. This kind of cable is available from Advantech. Please contact your local supplier for ordering information.

For more information on this and other Advantech products, please visit our website at:

<http://www.advantech.com/eAutomation>

For technical support and service:

<http://www.advantech.com/support/>

This startup manual is for ECU-P1522LPE.

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Overview

The ECU-P1522LPE is a standard PCIE extension card with HSR/PRP functions to reduce data transfer packet loss probability and ensure seamless switching.

Specifications

- The ECU-P1522LPE supports following specifications:
- 2 port SFP Base Ethernet Card with HSR/PRP
- Supports HSR Protocol (IEC 62439-3 Clause 5)
- Supports PRP Protocol (IEC 62439-3 Clause 4)
- Supports IEEE 1588V2
- BUS Type: PCI-Express x1 Gen 1
- Dimensions: 68.9 x 181 x 20.32 mm
- Power Consumption: 12V $\pm 5\%$ @ 500mA typical;
3.3V $\pm 5\%$ @ 600mA typical;
- Operating Temp: -25 ~ 70°C (-13 ~ 158°F)
- Operating Humidity: 10 ~ 90% RH non-condensing (refer to IEC 60068-2-3)

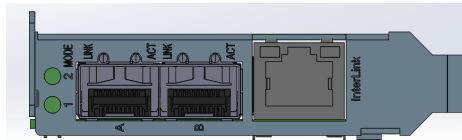
Hardware Installation

After the device driver is installed, you can now install the ECU-P1522LPE card in your computer.

Please follow the steps below to install the ECU-P1522LPE card:

1. TURN OFF your computer before installing or removing any components on the computer. Turn off your computer and unplug the power cord and cables.
2. Remove the cover of your computer.
3. Remove the slot cover on the back panel of your computer.
4. Touch the metal part on the surface of your computer to neutralize the static electricity that might be on your body.
5. Insert the ECU-P1522LPE card into a PCI Express slot. Hold the card only by its edges and carefully align it with the slot. Insert the card firmly into place. Use of excessive force must be avoided; otherwise, the card might be damaged.
6. Fasten the bracket of the PCI Express card on the back panel rail of the computer with screws.
7. Connect SFP modules to the SFP ports.
8. Replace the cover of your computer chassis.
9. Plug in the power cord and turn on the computer.

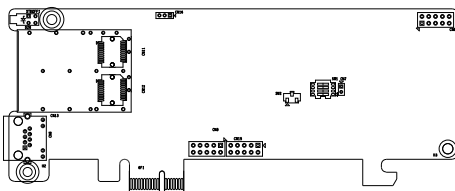
Connector and LED Assignments



Name	Function	Interface
A	RedBox_A	100M Base-FX SFP Interface (Select by SFP MODE) 1000M Base-X SFP Interface (Select by SFP MODE)
B	RedBox_B	100M Base-FX SFP Interface (Select by SFP MODE) 1000M Base-X SFP Interface (Select by SFP MODE)
Inter link	RedBox_Inter link	10/100/1000 Mbps Base-T

Name	Function	Interface
A_ACT	Blinking	SFP module A transmit data
A_Link	Yellow	100M Base-FX SFP_A is linked
	Green	1000M Base-X SFP_A is linked
B_ACT	Blinking	SFP module B transmit data
B_Link	Yellow	100M Base-FX SFP_B is linked
	Green	1000M Base-X SFP_B is linked
Mode_1 HSR/PRP mode	No light	Normal switch
	Green	HSR
	Yellow	PRP
Mode_2 SFP mode	Yellow	100M Base-FX SFP
	Green	1000M Base-X SFP
Intel link	Blink(Green)	Inter link port transmit data
	Yellow	Inter link port 100M linked
	Green	Inter link port 1000M linked

Switch and Jumper Settings



Switch Mode	SW1			
Normal Switch	OFF	OFF	OFF	OFF
HSR	OFF	ON	OFF	OFF
PRP	ON	ON	OFF	OFF

SFP Mode	SW2
1000M Base-FX	H
100M Base-FX	H
NC	H

CN16 PTP mode selection

Jumper choose	Function
1-2 Close	Disable PTP
2-3 Close (Default)	Enable PTP