

PCI Bus Expansion Chassis
Short size, 4-Slots, Silver
ECH-PCI-DE-H4D



* Specifications, color and design of the products are subject to change without notice.

Features

PCI bus (5V/32bit 33MHz) slots can be added to your PC.
Four PCI bus (5V/32bit 33MHz) slots can be added to your PC. This expansion chassis is connected to a PC using an optional expansion adapter.

Short-type PCI bus cards can be connected.
You can connect up to four short-type [176.5 (L) x 107 (H) mm] PCI bus cards.

The product can install within the panel or the device.
DIN rail mounting mechanism is equipped as standard with the product, making it easy to install the product within the panel or the device.

Steel chassis with cooling fan.
Steel chassis with cooling fan suitable for use in fields.

A wide range of power supplies (10.8 - 31.2VDC) supported.
As the product supports a wide range of power supplies (10.8 - 31.2VDC), the chassis can be used in a variety of power environments.

Expansion adapter (Optional product)

Expansion Adapter for PCI Express Slot
: EAD-DE-LPE

Combinations of Expansion Adapters and Expansion Chassis

The expansion adapters and expansion chassis can be used in the following combinations:

Expansion adapter	Expansion chassis ECH-PCI-DE						Expansion chassis ECH-DE-DE
	-H2B	-F2B	-H4B	-F4B	-H4D	-H13A	
EAD-DE-LPE	○	○	○	○	○*1	○	○

*1 The ECH-PCI-DE-H4D has no linkage function with the PC power-ON/OFF.

This product is an expansion chassis that adds PCI bus slots to a PC. Connecting an optional expansion adaptor (EAD-DE-LPE) can add PCI bus slots onto the PC.

Installable card is a short-type PCI card (176.5(L) x 107(H) mm).

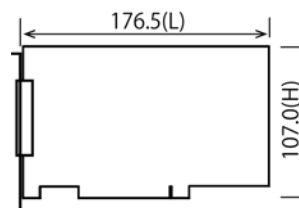
It is easy to install the product within the panel or device using DIN rail mounting jigs.

- * The contents in this document are subject to change without notice.
- * Visit the CONTEC website to check the latest details.
- * The information in the data sheets is as of May, 2021.

Function Specifications

Item	Specification
Compatible bus	PCI Local Bus Specification Rev2.3 (+5V type)
Address space	32-bit memory address, I/O address
Interrupt level	INTA - INTD
Bus operating clock	33MHz (Max)
Number of user-available slots	4 slots (short size)
Acceptable board sizes (mm)	176.5(L) x 107(H)
Power supply	
Expansion slot supplied power (The output current must not exceed the value on the right)	+5VDC 10A (Max) +3.3VDC 4A (Max.) +12VDC 2.0A (Max.) -12VDC 0.6A (Max.)
Rated input voltage	12 - 24VDC
Range of input voltage	10.8-31.2VDC
Power consumption	12V 10.0A (Max), 24V 5.0A (Max)
Physical dimensions (mm)	120.2(W) x 144(H) x 239.6(L) (without rubber feet)
Weight	1.74kg

Physical Dimensions of Acceptable Card (Max.)

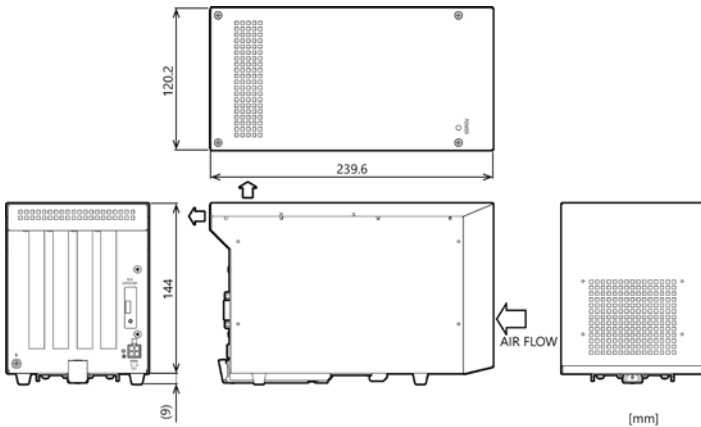


Environmental Specification

Item	Specification
Operating temperature	0 - 50°C
Operating humidity	20 - 80%RH (No condensation)
Storage temperature	0 - 60°C
Storage humidity	10 - 90%RH (No condensation)
Floating dust particles	Not to be excessive
Corrosive gases	None
Line-noise resistance	Line noise*1 AC line / ±2kV Signal line / ±1kV (IEC61000-4-4 Level 3, EN61000-4-4 Level 3) Static electricity resistance Contact discharge / ±4kV (IEC61000-4-2 Level 2, EN61000-4-2 Level 2) Atmospheric discharge / ±8kV (IEC61000-4-2 Level 3, EN61000-4-2 Level 3)
Vibration resistance	Sweep resistance*1*2 10 - 57Hz / semi-amplitude 0.075 mm, 57 - 150Hz/1.0G 40 min. each in x, y, and z directions (JIS C60068-2-6-compliant, IEC60068-2-6-compliant)
Impact resistance*1*2	10G, half-sine shock for 11 ms in x, y, and z directions (JIS C60068-2-27-compliant, IEC60068-2-27-compliant)
Grounding	Class D grounding (previous class 3 grounding)
Standard	VCCI Class A, FCC Class A

- *1 When PSSR-SG24 (manufactured by IDEC) is used for the DC power supply unit.
- *2 The examination was done by 2.44kg of gross weight.

Physical Dimensions



CAUTION

- When using this chassis, keep it at least 20mm away from any object such as the wall for cooling purposes.
- Attaching the rubber feet to the chassis makes it 9mm taller.

Product Configuration List

- Product ...1
- Setup Guide ... 1
- Warranty Certificate ...1
- Serial Number Label ...1
- Rubber Feet...4
- Rubber Feet Fixed Screw...4
- Slot Cover...3
- Standard Size Bracket...1
- Power Connector...1
- Contact...4

CAUTION

- For operating this product, power supply (12 - 24VDC) is required separately.

Restrictions

This product is used in a combination with the optional expansion adapter. The following restrictions apply to the situation when the expansion adapter is connected to the expansion chassis.

This product has restrictions on the types of PCs and cards that can be used. Be sure to check the following restrictions before use.

< Restrictions of PC >

This product use the PCI-to-PCI Bridge to extend the bus. The PCI cards plugged in PCI slots in this product are recognized if the PCI-to-PCI bridge is recognized by the BIOS in the PC used. Ask the PC vendor for whether the BIOS recognizes the PCI-to-PCI bridge.

< Restrictions on transfer rate >

When the expansion chassis accommodates a card that performs high-speed transfer such as bus mastering, the overall transfer rate may be lower than that of PCI bus slots in the main unit of a desktop PC. This is caused by bus extension by the PCI-to-PCI Bridge. The transfer rate may vary with the system configuration and the type of the PC.

< Restrictions of PCI card >

None of the following types of cards can be used in any expansion slot in the expansion chassis of PCI bus.

- Video display card (VGA card)
- Card to connect a PCI bus expansion chassis
- Card explicitly stated not to be used with the PCI-to-PCI Bridge