PCI Express Bus Expansion Chassis
Short size, 2-Slots, BLACK
ECH-PE-DE-H2B

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

This product is an expansion chassis that adds expansion slots to a PC. Connecting an optional expansion adaptor (EAD-DE-LPE) can add PCI bus slots or PCI Express(x1) bus slots onto the PC.

The installable card types are different depending on the chassis models, ECH-PE-DE-H2B is short-type [176.5 (L) x 111.15 (H) mm] PCI Express bus cards.

As your PC is turned ON or OFF, the expansion chassis can also be turned ON or OFF, accordingly. Since the cabinet contains a built-in cooling fan, which achieves a compact design, you can build a system even in a limited space next to your PC. The product is also bundled with an easy-to-carry AC adapter.

* The contents in this document are subject to change without notice.
* Visit the CONTEC website to check the latest details.
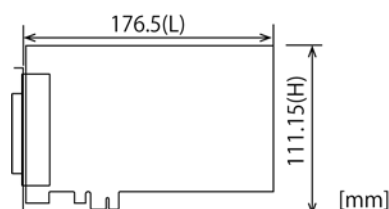* The information in the data sheets is as of December, 2020.

Features

PCI Express(x1) bus slots can be added to your PC.
Two PCI Express(x1) bus slots can be added to ECH-PE-DE-H2B.
This expansion chassis is connected to a PC using an optional expansion adapter.

Two short-type PCI Express bus cards can be connected.
You can connect two short-type [176.5 (L) x 111.15 (H) mm] PCI Express bus cards.

Power-ON/OFF control of the expansion chassis can be linked to that of your PC.
As your PC is turned ON or OFF, the expansion chassis can also be turned ON or OFF, accordingly.

The compact design of the cabinet with a built-in cooling fan enables space-saving system construction.
Since the cabinet contains a built-in cooling fan, which achieves a compact design, you can build a system even in a limited space next to your PC. The product is also bundled with an easy-to-carry AC adapter.

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-PE-DE
	-H2B	-F2B	-H4B	-F4B	-H4D	-H13A	-H2B
EAD-DE-LPE	○	○	○	○	○*1	○	○

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

Function Specifications

Item	Specification
Compatible bus	PCI Express Base Specification Rev.1.0a x1 *1
Communication speed	2.5G bps(Max.)
Number of user-available slots	2 slots (short size)
Acceptable board sizes (mm)	176.5(L)×111.15(H)
Power supply	
Expansion slot supplied power (The output current must not exceed the value on the right.)	+3.3VDC 6A (Max.) *2 +12VDC 1.5A (Max.) -12VDC 0.3A (Max.)
Maximum total power capacity	60W
AC input line voltage *3	100 - 240VA
AC line frequency	47 - 63Hz
AC power input current	2A(90VAC)
Physical dimensions (mm)	71.0(W) x 144.0(H) x 222.0(L) (without rubber feet)
Weight	1.2 kg
Outside dimensions of AC adapter(mm)	85(W) x 50(H) x 155(L)
Cable length of AC adapter	1.2m
AC cable	1.8m with 2P ground
Weight of AC adapter	0.9kg

*1   Although x16 boards can be installed, they function the same as x1 boards.
*2   Do not exceed 3A every one slot when you use 3.3VDC.
*3   AC input line voltage range: 90 - 264VAC.

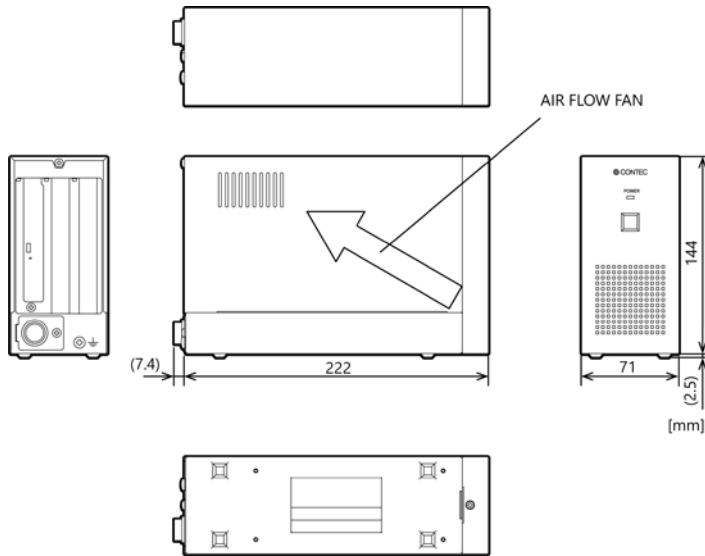**Physical Dimensions of Acceptable Card (Max.)**

Environmental Specification

Item		Specification
Operating temperature		0 - 50ºC
Operating humidity		20 - 80%RH (No condensation)
Storage temperature		0 - 60ºC
Storage humidity		10 - 90%RH (No condensation)
Floating dust particles		Not to be excessive
Corrosive gases		None
Line-noise resistance	Line noise	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)

Item	Specification
Grounding	Class D grounding (previous class 3 grounding)
Standard	VCCI Class A, FCC Class A

Physical Dimensions

AIR FLOW FAN

(7.4) 222 71 144 (2.5) [mm]

CAUTION
- When using this chassis, keep it at least 20mm away from any object such as the wall for cooling purposes.

Product Configuration List

Product ...1
Setup Guide ... 1
Warranty Certificate ...1
Serial Number Label ...1
Power Cable...1
AC adapter...1
Slot Cover...2
Card fixed screw...2

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 Express card >

None of the following cards can be plugged into any expansion slot in this product.

- The one that transmission rate of x1 or more is demanded(x16 etc.)
- Card to connect a PCI bus expansion chassis
- Some cards, even PCI or PCI Express bus -compliant ones, may not work depending on their specifications