

PCI Bus Expansion Chassis

Short size, 13-Slots

ECH-PCI-DE-H13A



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

Features

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

Short-type PCI bus cards can be connected

You can connect up to 13 short-type [176.5 (L) x 107 (H) mm] PCI 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.

Steel chassis with cooling fan

Steel chassis with cooling fan suitable for use in fields.

Rack-mountable

The chassis can be mounted on a rack with supplied brackets.

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.

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).

As your PC is turned ON or OFF, the expansion chassis can also be turned ON or OFF, accordingly.

* 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.

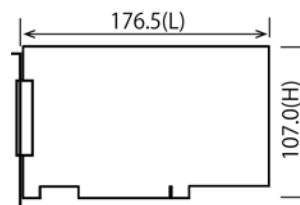
Function Specifications

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	13 slots (short size)	
Acceptable card 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 +3.3VDC +12VDC -12VDC	18A (Max) *1 15A (Max) *1 9A (Max) 0.8A (Max)
Maximum total power capacity	0 - 30 °C : 230W 30 - 40 °C : 205W 40 - 50 °C : 175W	
AC input line voltage *2	115/230VAC (selecting switch)	
AC line frequency	50 - 60Hz	
AC power input current	6A(115VAC)/4A(230VAC)	
Physical dimensions (mm)	424.0(W) x 156.0(H) x 255.0(L) (No fittings)	
Weight	7.5 kg	
AC cable	2.5m 3P	

*1 The sum of +5VDC and +3.3VDC must not exceed 90W.

*2 AC input line voltage range : 90 - 132VAC/180 - 250VAC

Physical Dimensions of Acceptable Card (Max.)



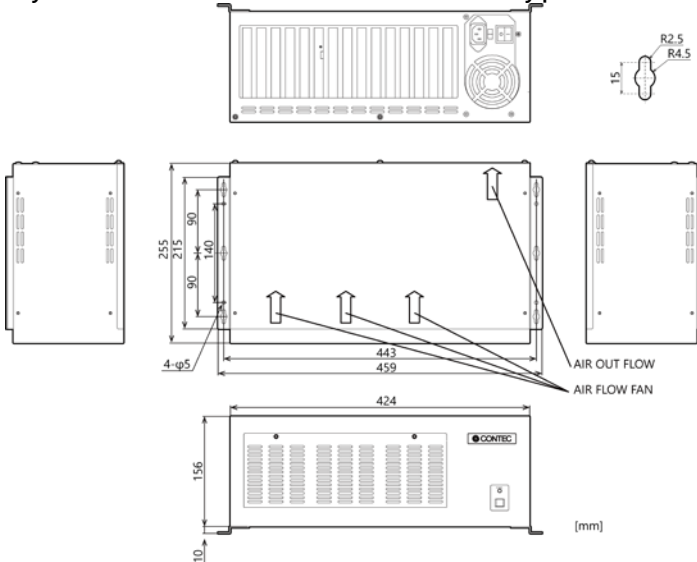
Environmental Specification

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 : 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	Sweep : 10 - 57Hz / semi-amplitude 0.075 mm, 57 - 150Hz/1.0G

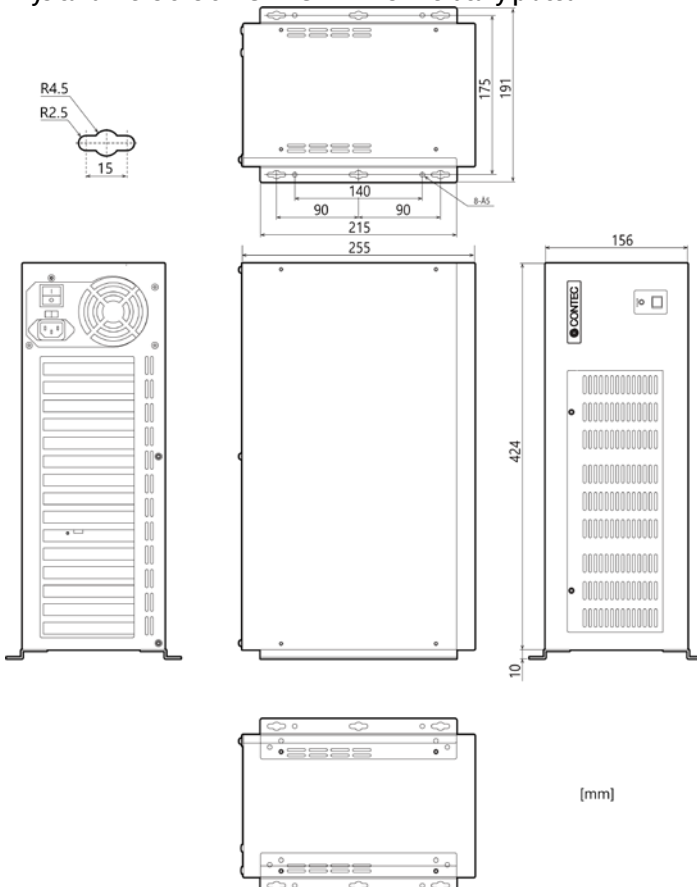
Item		Specification
resistance	resistance	40 min. each in x, y, and z directions (JIS C60068-2-6-compliant, IEC60068-2-6-compliant)
Impact resistance		10G, half-sine shock for 11 ms in x, y, and z directions (JIS C60068-2-27-compliant, IEC60068-2-27-compliant)
Grounding		Class D grounding (previous class 3 grounding)
Standard		VCCI Class A, FCC Class A

Physical Dimensions

Physical dimensions of ECH-PCI-DE-H13A horizontally placed



Physical dimensions of ECH-PCI-DE-H13A vertically placed



CAUTION

- When using this chassis, keep it at least 20mm away from any object such as the wall for cooling purposes.
- Attaching rubber feet to the chassis makes it 3.6mm taller.
- When you placed this product vertically, the brackets must be used.

Product Configuration List

Product ...1
 Setup Guide ... 1
 Warranty Certificate ...1
 Serial Number Label ...1
 Power Cable...1
 Rubber Feet...4
 Slot Cover...13
 Standard Size Bracket...1
 Bracket for Rack-mounted...2
 Bracket Fixed screw for Rack-Mounted...4

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