

PCI Bus Expansion Chassis
Short size, 7-Slots

ECH-PCI-BE3-H7A

Long size, 7-Slots

ECH-PCI-BE3-F7A

Long size, 13-Slots

ECH-PCI-BE3-F13A

ECH-PCI-BE3-H7A

ECH-PCI-BE3-F7A



ECH-PCI-BE3-F13A



Features

PCI (5V/32bit 33MHz) bus slots can be added to your PC.

PCI bus slots (5V/32bit 33MHz) can be added to ECH-PCI-BE3-xxA.

- ECH-PCI-BE3-H7A and ECH-PCI-BE3-F7A can add seven PCI bus slots.

- ECH-PCI-BE3-F13A can add thirteen PCI bus slots.

This expansion chassis is connected to a PC using an optional expansion adapter.

PCI bus cards can be connected.

You can connect short-type [176.5 (L) x 107 (H) mm] PCI bus cards.

ECH-PCI-BE3-H7A can connect seven PCI bus cards.

You can connect long-type [313.8 (L) x 107 (H) mm] PCI bus cards.

ECH-PCI-BE3-F7A can connect seven PCI bus cards.

ECH-PCI-BE3-F13A can connect thirteen 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

Wall-mountable.

Wall-mountable with optional brackets.

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

The installable card types are different depending on the chassis models, ECH-PCI-BE3-H7A are short-type [176.5 (L) x 107 (H) mm] PCI bus cards, ECH-PCI-BE3-F7A, ECH-PCI-BE3-F13A are long-type [313.8 (L) x 107 (H) mm] PCI bus cards.

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

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

* The contents in this document are subject to change without notice.

* Visit the CONTEC website to check the latest details in the document.

* The information in the data sheets is as of September, 2023.

Specifications

Specifications

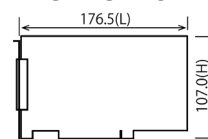
| Item | ECH-PCI-BE3-H7A | ECH-PCI-BE3-F7A | ECH-PCI-BE3-F13A |
|--|---|---|---|
| Compatible bus | PCI Local Bus Specification Rev2.2 (+5V type) | | |
| Address space | 32-bit memory address, I/O address | | |
| Interrupt level | INTA - INTD | | |
| Bus operating clock | 33MHz (Max) | | |
| Number of user available slots | 7 slots (short size) | 7 slots (long size) | 13 slots (long size) |
| Acceptable card sizes (mm) | 176.5(L)×107(H) | 313.8(L)×107(H) | 313.8(L)×107(H) |
| Expansion slot supplied power*(The output current must not exceed the value on the right)* | +5VDC 11.3A(Max) +3.3VDC 6A(Max) +12VDC 3A(Max) -12VDC 0.5A(Max) | +5VDC 15A(Max) *1 +3.3VDC 19A(Max) *1 +12VDC 10A(Max) -12VDC 0.5A(Max) | |
| Total maximum power supply | 118.3W | | 231W |
| Power supply | | | |
| Rated input voltage | 100 - 240VAC | | |
| Range of input voltage | 90 - 264VAC | | |
| AC line frequency | 50 /60Hz (Input auto switching) | | |
| Current consumption *2 | 3.0A(115VAC) / 1.5A(230VAC) | | 6.0A(110VAC) / 3.0A(230VAC) |
| Physical dimensions (mm) | 300.0(W)×156.0(H) ×255.0(L) (No protrusions) | 300.0(W)×156.0(H) ×373.0(L) (No protrusions) | 424.0(W)×156.0(H) ×373.0(L) (No protrusions) |
| Weight | 5.1kg | 6.0 kg | 7.5 kg |
| AC cable | 2.5m 3P | | |

*1 The sum of +5VDC and +3.3VDC must not exceed 105W.

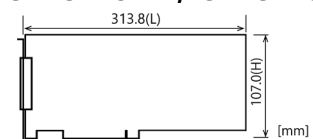
*2 The amount of current consumed when supplying the expansion slot with the total maximum power supply.

Outside dimensions of acceptable card (Max.)

< ECH-PCI-BE3-H7A >



< ECH-PCI-BE3-F7A, ECH-PCI-BE3-F13A >



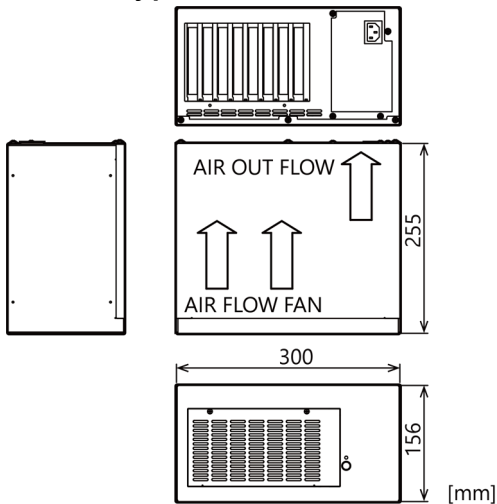
Environmental specifications

| Item | Specifications |
|-------------------------|---|
| 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 / ± 2 kV |
| | Signal line / ± 1 kV (IEC61000-4-4 Level 3, EN61000-4-4 Level 3) |
| | Static electricity resistance Contact discharge / ± 4 kV (IEC61000-4-2 Level 2, EN61000-4-2 Level 2) |
| Vibration resistance | Atmospheric discharge / ± 8 kV (IEC61000-4-2 Level 3, EN61000-4-2 Level 3) |
| | Sweep resistance 10 - 57Hz / semi-amplitude 0.075 mm, 57 - 150Hz/1.0G |
| Impact resistance | 40 min. each in x, y, and z directions (JIS C60068-2-6-compliant, IEC60068-2-6-compliant) |
| Grounding | 10G, half-sine shock for 11 ms in x, y, and z directions (JIS C60068-2-27-compliant, IEC60068-2-27-compliant) |
| Standard | Class D grounding (previous class 3 grounding) |
| | VCCI Class A, CE Marking (EMC Directive Class A, Low Voltage Directive, RoHS Directive), UKCA |

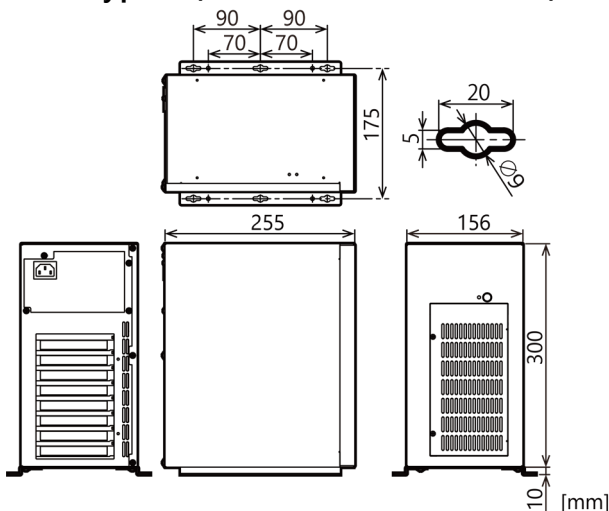
Physical Dimensions

ECH-PCI-BE3-H7A

- Horizontally placed

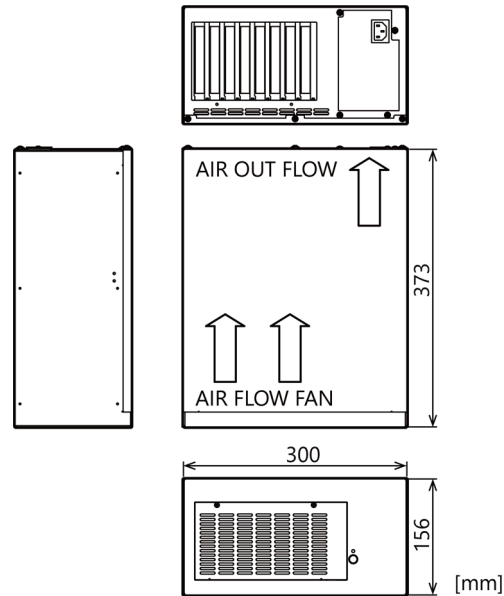


- Vertically placed (When ECH-WM-FIX-H is attached)

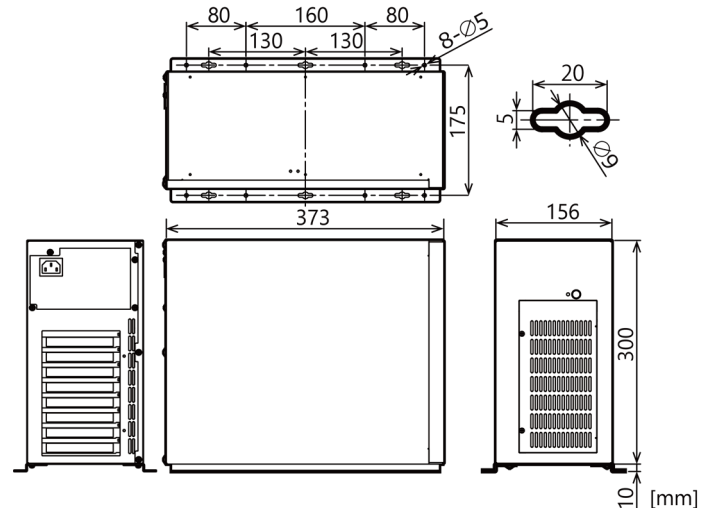


ECH-PCI-BE3-F7A

- Horizontally placed

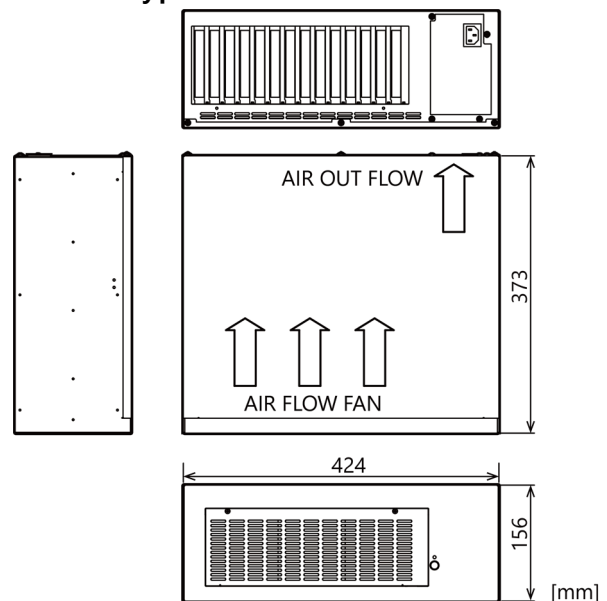


- Vertically placed (When ECH-WM-FIX-F is attached)

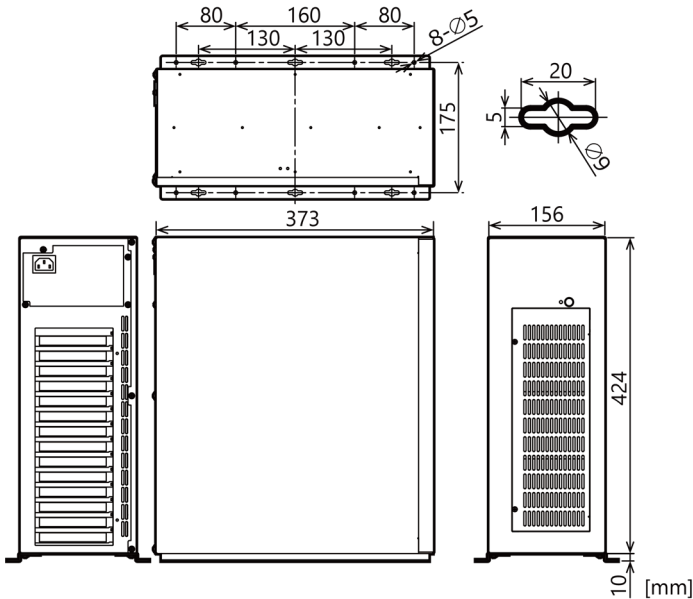


ECH-PCI-BE3-F13A

- Horizontally placed



- Vertically placed (When ECH-WM-FIX-F is attached)



CAUTION

- When using this product, keep it at least 20mm away from any object such as the wall for cooling purposes.
- Attaching rubber feet to the ECH-PCI-BE3-H7A/F7A makes it 7.6mm taller.
- Attaching rubber feet to the ECH-PCI-BE3-F13A makes it 8.8mm taller.
- When you placed this product vertically, the brackets must be used.

Included Items

- Product ... 1
- Power cable ... 1
- Slot cover
 - ECH-PCI-BE3-H7A, ECH-PCI-BE3-F7A ... 7,
 - ECH-PCI-BE3-F13A ... 13
- Card fixed screw
 - ECH-PCI-BE3-H7A, ECH-PCI-BE3-F7A ... 7,
 - ECH-PCI-BE3-F13A ... 13
- Rubber feet ... 4
- Please read the following ... 1

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-BE3 | | | | | |
|-------------------|-------------------------------|------|------|------|------|-------|
| | -H2B | -H4B | -F4B | -H7A | -F7A | -F13A |
| EAD(PCI)BE | ○ | ○ | ○ | ○ | ○ | ○ |
| EAD(LPCI)BE | ○ | ○ | ○ | ○ | ○ | ○ |
| EAD-BE-LPE | ○ | ○ | ○ | ○ | ○ | ○ |

Optional Products

| Product Name | Model type | Description |
|---|--------------|-------------|
| PCI Bus Expansion Adapter for PCI Bus PC-Slot | EAD(PCI)BE | |
| PCI Bus Expansion Adapter for Low Profile PCI PC-Slot | EAD(LPCI)BE | |
| PCI Bus Expansion Adapter for Low Profile PCI Express PC-Slot | EAD-BE-LPE | |
| Wall Mount Bracket for Expansion Chassis(Short size) | ECH-WM-FIX-H | |
| Wall Mount Bracket for Expansion Chassis(Long size) | ECH-WM-FIX-F | |

* Check the CONTEC's Web site for more information on the option products.

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 is 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 cards can be plugged into any expansion slot in this product.

- 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

Some cards, even PCI-compliant ones, may not work depending on their specifications.

Differences from Conventional Products

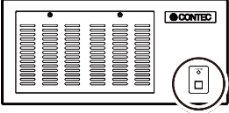
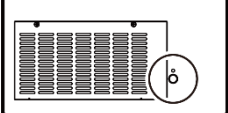
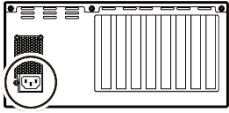
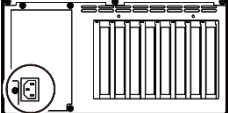
Difference from ECH-PCI-BE2-H7A

This product is a successor of the previous model ECH-PCI-BE2-H7A. So you can use the same operating procedures as ECH-PCI-BE2-H7A.

| Item | ECH-PCI-BE2-H7A | ECH-PCI-BE3-H7A |
|-------------------------------|---|---|
| Expansion slot supplied power | +5VDC 11.3A(Max) +3.3VDC 6A(Max) +12VDC 3A(Max) -12VDC 0.5A(Max) | +5VDC 11.3A(Max) +3.3VDC 6A(Max) +12VDC 3A(Max) -12VDC 0.5A(Max) |
| Power Switch location | | |
| AC inlet location | | |
| Wall Mount Bracket | Attached | Option (ECH-WM-FIX-H) |
| Color | Ivory | Silver |
| Physical dimensions (mm) | 300.0(W)×138.0(H)×255.0(L) | 300.0(W)×156.0(H)×255.0(L) |
| Weight | 5.0 kg | 5.1kg |


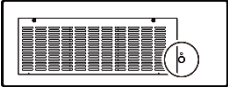


Difference from ECH-PCI-BE2-F7A

This product is a successor of the previous model ECH-PCI-BE2-F7A. So you can use the same operating procedures as ECH-PCI-BE2-F7A.

| Item | ECH-PCI-BE2-F7A | ECH-PCI-BE3-F7A |
|----------------------------------|---|---|
| Expansion slot Supplied power | +5VDC 11.3A(Max) +3.3VDC 6A(Max) +12VDC 3A(Max) -12VDC 0.5A(Max) | +5VDC 11.3A(Max) +3.3VDC 6A(Max) +12VDC 3A(Max) -12VDC 0.5A(Max) |
| Power Switch location |  |  |
| AC inlet location |  |  |
| Wall Mount Bracket | Attached | Option (ECH-WM-FIX-F) |
| Color | Ivory | Silver |
| Physical dimensions (mm) | 300.0(W)×138.0(H)×373.2(L) | 300.0(W)×156.0(H)×373.0(L) |

Difference from ECH(PCI)BE-H13A / F13A

This product is a successor of the previous model ECH(PCI)BE-H13A / F13A. So you can use the same operating procedures as ECH(PCI)BE-H13A / F13A.

| Item | ECH(PCI)BE-H13A / F13A | ECH-PCI-BE3-F13A |
|-------------------------------------|--|---|
| Expansion slot supplied power | +5VDC 18A(Max) *1 +3.3VDC 15A(Max)*1 +12VDC 9A(Max) -12VDC 0.8A(Max) | +5VDC 15A(Max) *2 +3.3VDC 19A(Max) *2 +12VDC 10A(Max) -12VDC 0.5A(Max) |
| Maximum total power capacity | 205W | 231W |
| Power Switch location |  |  |
| AC inlet location |  |  |
| Wall Mount Bracket | Attached | Option (ECH-WM-FIX-F) |
| Color | Ivory | Silver |
| Physical dimensions (mm) | ECH(PCI)BE-H13A 424.0(W)×156.0(H)×255.0(L) ECH(PCI)BE-F13A 424.0(W)×156.0(H)×373.2(L) | 424.0(W)×156.0(H)×373.0(L) |
| Weight | ECH(PCI)BE-H13A 7.5 kg ECH(PCI)BE-F13A 9.0 kg | 7.5kg |

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

*2 The sum of +5VDC and +3.3VDC must not exceed 105W.