

Expansion Unit / Bus Adapter

What is the expansion unit?

An expansion system is used to expand the number of available PCI bus slots of either CONTEC industrial computers (IPC series) or standard PCs. It is also useful in applications where the power consumption of add-on boards exceeds the power supply capacity of the host PC. An expansion system is used to join the expansion chassis and the host PC into one system.



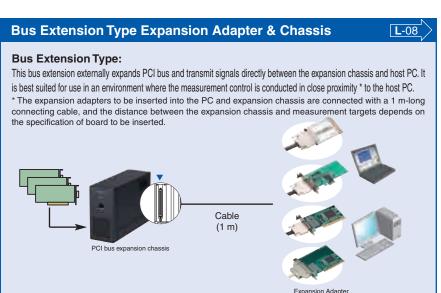




Product Lineup

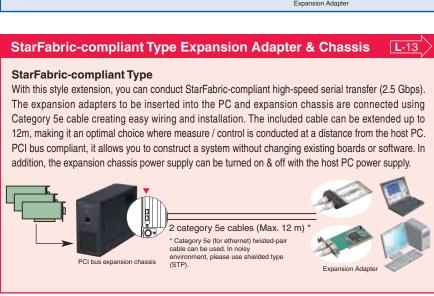
A wide variety of variations according to expansion systems are available.

PCI Express Cable Type: PCI Express Cable Type: PCI Express External Cabling 1.0 compliant, providing a high-speed data transfer (2.5 Gbps). PCI bus slots or PCI Express bus slots can be added to PCs having PCI Express bus or ExpressCard slots. It allows you to construct a system without changing existing PCI add-on boards or PCI Express bus board and software. In addition, the expansion chassis power supply can be turned on & off with the host PC power supply.



Cable

PCI Express bus expansion chassis



■ PCI Express Cable Type Expansion Bus Adapter & Chassis

Expansion Adapter

Model Type EAD-CE-LPE PCI Express EAD-CE-EC ExpressCard

Expansion Chassis

Model	Buo tupo	Installation Type			Slots	Installab	le Board
Model	Bus type	Desktop	Rack mount	Wall mount		Long	Short
ECH-PE-CE-H2B	PCI Express bus	0	-	-	2	×	0
ECH-PE-CE-F2B	PCI Express bus	0	-	-	2	0	0
ECH-PCI-CE-H2B	PCI bus	0	-	-	2	×	0
ECH-PCI-CE-H2C	PCI bus	0	-	-	2	×	0
ECH-PCI-CE-H4B	PCI bus	0	-	-	4	×	0
ECH-PCI-CE-F2B	PCI bus	0	-	-	2	0	0
ECH-PCI-CE-F4B	PCI bus	0	-	-	4	0	0
ECH-PCI-CE-H4A	PCI bus	0	0	0	4	×	0
ECH-PCI-CE-H7A	PCI bus	0	0	0	7	×	0
ECH-PCI-CE-H13A	PCI bus	0	0	0	13	×	0

■ Bus Extension Type Expansion Adapter & Chassis

Expansion Adapter

Model	Туре
EAD-BE-LPE	PCI Express
EAD(LPCI)BE	PCI
EAD(PCI)BE	PCI
EAD(FCI)BE	(for Standard PCI slots)
EAD(CB)BE-N	Card Bus

PCI Bus Expansion Chassis

Model	Inst	tallation T	уре	Slots	Installable Board		
Model	Desktop	Rack mount	Wall mount	31013	Long	Short	
ECH(PCI)BE-H2B	0	-	-	2	×	0	
ECH(PCI)BE-H4B	0	-	-	4	×	0	
ECH(PCI)BE-F2B	0	-	-	2	0	0	
ECH(PCI)BE-F4B	0	-	-	4	0	0	
ECH(PCI)BE-H4A	0	0	0	4	×	0	
ECH(PCI)BE-H7A	0	0	0	7	×	0	
ECH(PCI)BE-H13A	0	0	0	13	×	0	
ECH(PCI)BE-F7A	0	0	0	7	0	0	
ECH(PCI)BE-F13A	0	0	0	13	0	0	

StarFabric-compliant Type Expansion Adapter & Chassis

Expansion Adapter

Model	Туре
EAD-SF-LPE	PCI Express
EAD(LPCI)SF	PCI
EAD(CB)SF	Card Bus

• PCI Bus Expansion Chassis

Model	Inst	tallation T	ype	Slots	Installable Board	
Model	Desktop	Rack mount	Wall mount	Siols	Long	Short
ECH(PCI)SF-H2B	0	-	-	2	×	0
ECH(PCI)SF-H4B	0	-	-	4	×	0
ECH(PCI)SF-F2B	0	-	-	2	0	0
ECH(PCI)SF-F4B	0	-	-	4	0	0
ECH(PCI)SF-H4A	0	0	0	4	×	0
ECH(PCI)SF-H7A	0	0	0	7	×	0
ECH(PCI)SF-H13A	0	0	0	13	×	0
ECH(PCI)SF-F7A	0	0	0	7	0	0
ECH(PCI)SF-F13A	0	0	0	13	0	0

BUF-CARD(PC)P

PC-CARD(PC)H

■ ISA Bus Expansion Unit (Backplane included)

Model	Inst	allation [*]	Туре		Drive		Insta	llable E	Board
Model	Desktop	Rack mount	Wall mount	Adapter				Middle	
FA-PAC(PC)M4D	0	-	-	Option	None	4*2	×	× *1	0

^{*1:} Installable depending on board sizes. Check your board size (actual size).
*2: Expansion bus adapter occupies 1 slot from available slot.

Bus Expansion Adapter

	•	•					
Model Type		l backplane	Installabl Expansion			T- * *)	
	BUF(PCI)	PCI to PCI Bus (7 slots)	Included	F8DR	F8DR/M	F11RFV	M11RFV
	BUF(PCI)13	PCI to PCI Bus (13 slots)	Included	F8DR	F8DR/M		

Caution: Please note that the following expansion boards cannot be used inside an expansion chassis.

<For PCI bus expansion chassis>

- Video boards
- Additional PCI bus expansion boards
- Boards with the disclaimer "Cannot be used with PCI-to-PCI Bridge"
- Please note that even when a board is compatible with PCI bus specifications, it may not operate due to specification limitations.
- <For PCI Express bus expansion chassis>
- Board (x16 etc) requiring communication speeds of more than that of PCI Express (x1)

Bus Converter Adapter

- Additional PCI bus expansion boards
- Please note that even when a board is compatible with PCI Express bus specifications, it may not operate due to specification limitations.

* For details, please check the manual or visit our website

PC card to ISA

ISA to PC Card

Pictograms

Card

Expansion Adapter



Product is PCI Express standard compliant and can be used in the computer equipped with PCI Express bus Product supports CardBus that is

a 32-bit PC card standard bus and

can be used in the notebook

computer equipped with a CardBus-compliant PC card slot.

Product is PCI standard compliant and can be used in the computer equipped with PCI bus expansion slot.

Board Size



Product is PCI standard / Low Profile compliant. A bracket for standard-size PCI slots is

Expansion Chassis



Maximum number can be installed



Maximum board size that can be installed



AC adapter Includes

Includes AC adapter. The expansion chassis has no built-in power source.

BOXComputers

Panel Computers

Flat Panel Displays

Options

Industrial PC VPC **BTO PCs**

Solution-ePC Analog I/O

Digital I/O

Counter & Motion Controller

Serial Communications GPIB

Communications

Software

Accessories & Cables

Remote I/O

Wireless LAN FLEXLAN Image Distribution Unit FlexNetViewer

Solutions / Services

L-02

Expansion Adapter Chassis

Expansion Adapter

Chassis

Expansion Adapte

Chassis

ISA Bus Unit

Bus Expansion Adapter

Bus Converter Adapter Parts of Maintenance

вох Computers

Computers

Flat Panel Displays

Options

Industrial PC

BTO PCs Solution-ePC

Analog I/O

Digital I/O

Counter & Motion Controller

Communications **GPIB**

Software

Accessories &

Wireless LAN FLEXLAN

Solutions /

Services

L-03



Chassis

Expansion Adapte

Expansion Adapte

Chassis

Chassis ISA Bus Unit

Bus Expansion

Bus Converter

Parts of Maintenance Exchange

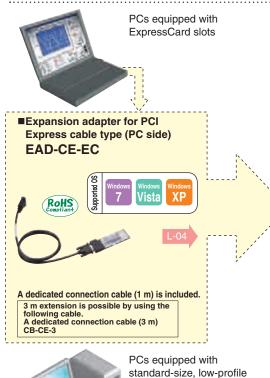
PCI Express Cable Type Selecting Optimal Expansion Adaptor and Expansion Chassis

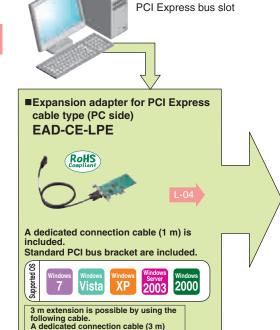
PCI Express External Cabling 1.0 compliant, providing a high-speed data transfer (2.5 Gbps). PCI bus slots or PCI Express bus slots can be added to PCs having PCI Express bus or ExpressCard slots. It allows you to construct a system without changing existing PCI add-on boards or PCI Express bus board and software. In addition, the expansion chassis power supply can be turned on & off with the host PC power supply.

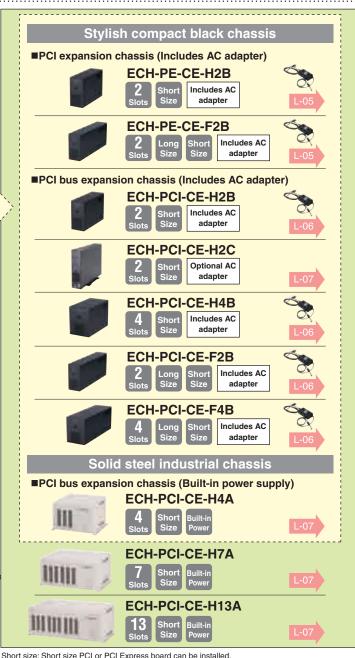
CONTEC offers 18 different configurations based on the type of host PC, needed number and size of PCI slots.

Expansion Adapter

Expansion Chassis







Long size: Long size PCI or PCI Express board can be installed

	_		
Model	EAD-CE-LPE	EAD-CE-EC	
Bus Type	PCI Express Base Specification Rev. 1.0a x1	ExpressCard Standard Release 1.1	
Card Slot	-		
Dimensions (mm)	121.69 (L) x 67.90 (H)	100 (L) x 34 (H)	
Bus Clock	-		
Power Consumption	3.3 VDC 50 mA (Max.)	3.3 VDC 50 mA (Max.)	
Operating Conditions	0 - 50°C, 10 - 90 % RH (no condensation)		
Attached Cable	CB-CE-1 (cable length: 1 m)		

As shown on the side of product's images, RoHS compliant (2015) is a CONTEC original marking for RoHS-compliant products.

Express



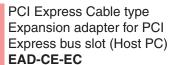


PCI Express Cable type Expansion adapter for PCI Express bus slot (Host PC) **EAD-CE-LPE**





- ●PCI bus (5 V/32 bit 33 MHz) or PCI Express (x1) bus slot can be added using PCI Express board on the host PC.
- Expansion chassis can be selected for each application.
- •The power supply can be turned on & off with the host PC power
- ●Low Profile PCI-compliant (includes bracket for use in standard PCI slot)





- ●PCI bus (5 V/32 bit 33 MHz) or PCI Express (x1) bus slot can be added using ExpressCard slot on the notebook computer.
- Expansion chassis can be selected for each application.
- •The power supply can be turned on & off with the host PC power

BOX Computers

Panel Computers

Flat Panel Displays

Options

Industrial PC VPC

BTO PCs Solution-ePC

Analog I/O

Digital I/O

Counter & Motion Controller

Serial

Communications GPIB Communications

Software

Accessories & Cables

Remote I/O

Wireless LAN FLEXLAN **Image Distribution Unit** FlexNetViewer

Solutions / Services

L-04

Lineup

Chassis

Expansion Adapte

Chassis

Expansion Adapte

Exchange

Note:

PCI Express Base Specification Rev. 1.0a x1 | ExpressCard Standard Release 1.1

100 (L) x 34 (H)

3.3 VDC 50 mA (Max.)

121.69 (L) x 67.90 (H)

3.3 VDC 50 mA (Max.)

CB-CE-1 (cable length: 1 m)

0 - 50°C, 10 - 90 % RH (no condensation)

As shown on the side of product's images, RoHS compliant [898] is a CONTEC original marking for RoHS-compliant products.

Global Site: www.contec.com

Bus Type

Card Slot Dimensions (mm)

Bus Clock Power Consumption

Operating Conditions

Attached Cable

Chassis ISA Bus Unit Bus Expansion Adapter Bus Converter Adapter Parts of Maintenance

about

вох Computers

Computers Flat Panel Displays

Options

Industrial PC VPC BTO PCs

Solution-ePC

Analog I/O

Digital I/O

Counter & Motion Controller

Communications **GPIB**

Software

Accessories &

Remote I/O

Wireless LAN FLEXLAN mage Distribution Unit FlexNetViewer

Solutions / Services

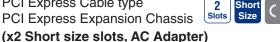
PCI Express Cable type PCI Express Expansion Chassis







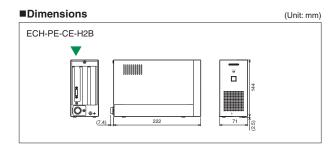






ECH-PE-CE-H2B

- 2 short-size PCI Express boards can be installed.
- ●1x PCI Express bus slot can be added to the PC.
- •The power supply can be turned on & off with the host PC power supply.
- •The compact chassis design with a built-in cooling fan combines space-saving system configuration.



PCI Express Cable type PCI Express Expansion Chassis



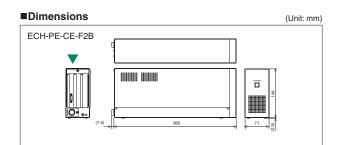




(x2 Long size slots, AC Adapter) ECH-PE-CE-F2B



- ●2 long-size PCI Express bus boards can be installed.
- ●1x PCI Express bus slot can be added to the PC.
- •The power supply can be turned on & off with the host PC power supply.
- The compact chassis design with a built-in cooling fan combines space-saving system configuration.



L-05

Lineup

PCI Express Cable Type

Expansion Adapte

Expansion Adapter

Chassis

Expansion Adapte

Chassis

ISA Bus Unit

Bus Expansion Bus Converter Adapter Parts of Maintenance Exchange

PCI Express Base Specification Rev.1.0a x1 *2 Bus Type Address Space Interrupt Level Bus Clock User Slots 2 (Short-size) 2 (Long-size) Installable Board (mm) 176.5 (L) x 111.15 (H) 313.8 (L) x 111.15 (H) The output current shall not exceed the following values. +3.3 VDC 6 A (Max.) *, +12 VDC 1.5 A (Max.), -12 VDC 0.3 A (Max.) The output current shall not exceed the following values. +5 VDC 7 A (Max.) *3, +3.3 VDC 3 A (Max.) *42 VDC 1.5 A (Max.), -12 VDC 0.3 A (Max.) Power Supply Capacity (Max.) AC Input Voltage *1 100 - 240 VAC Overall Maximum Power Supply Capacity

60 W 0 - 50°C, 20 - 80 % RH (no condens 71.0 (W) x 144.0 (H) x 222.0 (L)

(no rubber foot)

1.2 kg

71.0 (W) x 144.0 (H) x 360.0 (L) (no rubber foot) 1.6 kg

Weight of AC Adapter 0.9 kg

Operating Conditions

Dimensions (mm)

Weight of Chassis

Note:

*1: AC input voltage: 90 - 264 VAC.
*2: X16 boards can also be installed. However, it must have the same functions as X1 board.
*3: The sum of +5 VDC/+3.3 VDC must not exceed 35 W.
*4: If you use 3.3 VDC, it must not exceed 3 A for each slot.

As shown on the side of product's images, RoHS compliant 🕮 is a CONTEC original marking for RoHS-compliant products.

ECH-PCI-CE-F2B

Expansion Unit / Bus Adapter

PCI Express Cable type PCI bus expansion chassis



(x2 Short size slots, AC Adapter) **ECH-PCI-CE-H2B**



PCI Express Cable type

ÈCH-PCI-CE-H4B

PCI bus expansion chassis

(x4 Short size slots, AC Adapter)

- •2 short-size PCI bus boards can be installed.
- is added to the PC.
- PC power supply.
- The compact chassis design with a built-in cooling fan combines space-saving system configuration.

Short

Size

can be installed.

PC power supply.

combines space-saving

system configuration.

PCI Express Cable type PCI bus expansion chassis

(x2 Long size slots, AC Adapter)



can be installed.

PC power supply.





BOXComputers Panel

Computers

Flat Panel Displays

Industrial PC VPC

BTO PCs Solution-ePC

Analog I/O

Digital I/O

Counter & Motion

Controller Serial

GPIB

Software

Accessories &

Cables

Remote I/O

Wireless LAN FLEXLAN Image Distribution Unit

Solutions / Services

Lineup

•A PCI bus (5 V/32 bit 33 MHz)

●The power supply can be turned on & off with the host

PCI Express Cable type PCI bus expansion chassis

ECH-PCI-CE-F4B

(x4 Long size slots, AC Adapter)

RoHS





•2 long-size PCI bus boards

•A PCI bus (5 V/32 bit 33 MHz)

slot can be added to the PC.

turned on & off with the host

•The compact chassis design

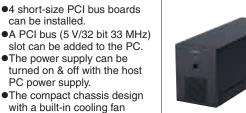
with a built-in cooling fan

combines space-saving

system configuration.

•The power supply can be





•4 long-size PCI bus boards can be installed.

•A PCI bus (5 V/32 bit 33 MHz) slot can be added to the PC.

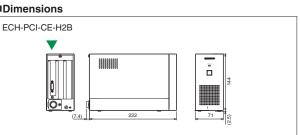
•The power supply can be turned on & off with the host PC power supply.

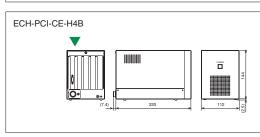
 The compact chassis design with a built-in cooling fan combines space-saving system configuration.

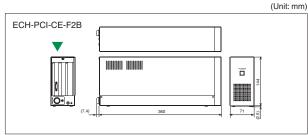
RoHS

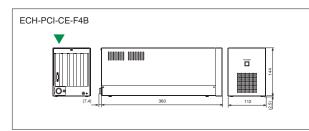
Bus Type PCI Local Bus Specification Rev2.3 (+5 VDC) Address Space Memory: 32-bit addressing, I/O: 32-bit addressing Interrupt Level INTA - INTD Bus Clock 33 MHz (Max.) 4 (Short-size) User Slots 4 (Long-size) 2 (Short-size) 2 (Long-size) Installable Board (mm) 176.5 (L) x 107 (H) 176.5 (L) x 107 (H) 313.8 (L) x 107 (H) 313.8 (L) x 107 (H) The output current shall not exceed the following values Power Supply Capacity +5 VDC 7 A (Max.) *2, +3.3 VDC 3 A (Max.) +12 VDC 1.5 A (Max.), -12 VDC 0.3 A (Max.) AC Input Voltage *1 100 - 240 VAC Overall Maximum Power Supply Capacity 60 W 0 - 50°C, 20 - 80 % RH (no condensation) **Operating Conditions** 112.0 (W) x 144.0 (H) x 360.0 (L) 71.0 (W) x 144.0 (H) x 222.0 (L) 71.0 (W) x 144.0 (H) x 360.0 (L) 112.0 (W) x 144.0 (H) x 222.0 (L) Dimensions (mm) (no rubber foot) (no rubber foot) (no rubber foot) (no rubber foot) Weight of Chassis 1.2 kg 1.6 kg 1.5 kg 2.0 kg Weight of AC Adapter 0.9 kg *1: AC input voltage: 90 - 264 VAC.
*2: The sum of +5 VDC/3.3 VDC must not exceed 35 W. Note As shown on the side of product's images, RoHS compliant (2015) is a CONTEC original marking for RoHS-compliant products

■Dimensions









L-06

Expansion Adapte Chassis Expansion Adapte

Expansion Adapte

Bus Expansion Adapter Bus Converter Adapter

Chassis

ISA Bus Unit

Parts of Maintenance

about

вох Computers

Computers

Flat Panel Displays

Options

Industrial PC VPC

BTO PCs Solution-ePC

Analog I/O

Digital I/O

Counter & Motion Controller

Communications

Software

Accessories &

Remote I/O

Wireless LAN FLEXLAN mage Distribution Unit

Solutions / Services

PCI Express Cable type PCI bus expansion chassis







(x4 Short size slots, On board Power) **ECH-PCI-CE-H4A**



- •4 short-size PCI bus boards can be installed.
- A PCI bus (5 V/32 bit 33 MHz) slot can be added to the PC.
- The power supply can be turned on & off with the host PC power supply.
- Steel chassis equipped with a built-in cooling fan.

PCI Express Cable type PCI bus expansion chassis







(x7 Short size slots, On board Power) ECH-PCI-CE-H7A



- •7 short-size PCI bus boards can be installed.
- A PCI bus (5 V/32 bit 33 MHz) slot can be added to the PC.
- The power supply can be turned on & off with the host PC power supply.
- Steel chassis equipped with a built-in cooling fan is employed.

PCI Express Cable type PCI bus expansion chassis

(x13 Short size slots, On board Power)

INTA - INTD

33 MHz (Max.)

4 (Short-size)

130 W *

(no fittings)

3.5 kg

Installable Board (mm) 176.5 (L) x 107 (H)





PCI bus expansion chassis

PCI Express Cable type



(x2 Short size slots, AC Adapter) ECH-PCI-CE-H2C





13 (Short-size)

40 - 50°C: 175 W*4

(no fittings)

7.5 kg

*1: AC input line voltage range: 90 - 132 VAC and 180 - 250 VAC. *2: The sum of +5 VDC and +3.3 VDC must not exceed 90 W. *3: Condition with CE marking: 130 W at 40°C. *4: Condition with CE marking: 175 W at 50°C. *5: The sum of +5 VDC/+3.3 VDC must not exceed 35 W. *6: DC input line voltage range: 10.8 - 31.2 VDC

As shown on the side of product's images, RoHS compliant (2015) is a CONTEC original marking for RoHS-compliant products

The output current shall not exceed the following

values. +5 VDC: 18 A (Max.) *², +3.3 VDC: 15 A (Max.) +12 VDC: 9 A (Max.), -12 VDC: 0.8 A (Max.)

0 - 30°C: 230 W, 30 - 40°C: 205 W,

424.0 (W) x 156.0 (H) x 255.0 (L)

- •2 short-size PCI bus boards can be installed.
- •A PCI bus (5 V/32 bit 33 MHz) slot can be added to the PC.
- Cable connection with the Multi-Function Resource-Saving PC BX100n series can be adopted to allow integrated or separate use.

The output current shall not exceed the following

values. +5 VDC: 5 A (Max.) *5, +3.3 VDC: 2 A (Max.) *5, +12 VDC: 1 A (Max.), -12 VDC: 0.3 A (Max.)

270.0 (W) x 182.0 (H) x 50.0 (L)

2 (Short-size)

12 - 24 VDC *6

(no rubber foot)

48 W

3.5 kg

ECH-PCI-CE-H13A

RoHS

Interrupt Level

Power Supply Capacity

Overall Maximum Power

AC Input Voltage

Supply Capacity

Dimensions (mm)

Weight of Chassis

■Dimensions

ECH-PCI-CE-H4A

Operating Conditions

Bus Clock

User Slots

(Max.)

Note:

- •13 short-size PCI bus boards can be installed.
- •A PCI bus (5 V/32 bit 33 MHz) slot can be added to the PC.
- The power supply can be turned on & off with the host PC power supply.

The output current shall not exceed the following values.

+5 VDC: 11.3 A (Max.), +3.3 VDC: 6 A (Max.),

+12 VDC: 3 A (Max.), -12 VDC: 0.7 A (Max.)

0 - 50°C, 20 - 80 % RH (no condensation)

115/230 VAC (switch selectable)

210.0 (W) x 138.0 (H) x 235.0 (L)

 Steel chassis equipped RoHS with a built-in cooling fan is employed. PCI Local Bus Specification Rev2.3 (+5 VDC) Bus Type Address Space Memory: 32-bit addressing, I/O: 32-bit addressing

300.0 (W) x 138.0 (H) x 255.0 (L)

7 (Short-size)

(no fittings)

5.0 ka

*7: For power supply of ECH-PCI-CE-H2C, use IPC-ACAP12-04. For details, please see D-02.

2222

8888

L-07

Lineup

Expansion Adapte

Expansion Adapte

Chassis

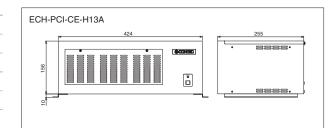
Expansion Adapte

Chassis ISA Bus Unit

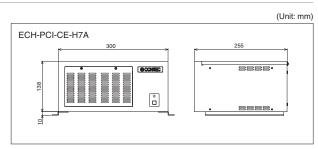
Bus Expansion

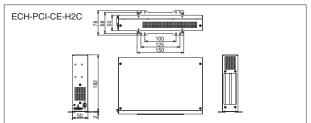
Bus Converter

Parts of Maintenance Exchange



Ē



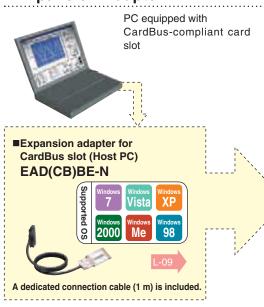


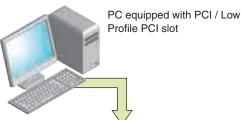
Bus Extension Type Selecting Optimal Expansion Adaptor and Expansion Chassis

Bus extension type is best suited for use in an environment where the control is conducted in close proximity to the L-13 PC unit. If the expansion unit needs to be further away (up to 12 m), select from the StarFabric-compliant type. CONTEC offers 32 different configurations based on the type of host PC, needed number and lengths of PCI slots.

■Expansion Adapter

Expansion Chassis





■Expansion adapter for **PCI Express-compliant** Low Profile PCI bus slot (Host PC) **EAD-BE-LPE**



A dedicated connection cable (1 m) is included.

Standard PCI bus bracket are included.

■Expansion adapter for **PCI Express-compliant**

Low Profile PCI bus slot (Host PC) EAD(LPCI)BE



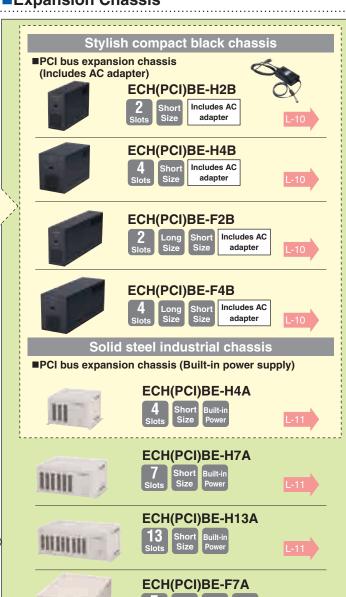
A dedicated connection cable (1 m) is

Standard PCI bus bracket are included.

■Expansion adapter for PCI bus slot (Host PC) EAD(PCI)BE



A dedicated connection cable (1 m) is



Short size: A short-size PCI board can be installed Long size: A long-size PCI board bus can be installed

■For customers using the previous model expansion unit [FA-PAC(PCI) series, NOTE-PAC(PCI) series]

When replacing conventional expansion unit with expansion chassis and adapters, please refer to the following list to purchase the appropriate combination. It allows system configuration using the same specifications as the previous models.

ECH(PCI)BE-F13A

em	Expansion adapter		Expansion chassis
=	EAD(PCI)BE	+	ECH(PCI)BE-H4A
=	EAD(PCI)BE	+	ECH(PCI)BE-F7A
=	EAD(PCI)BE	+	ECH(PCI)BE-F13A
pansion	system		
=	EAD(CB)BE-N	+	ECH(PCI)BE-H2B
=	EAD(CB)BE-N	+	ECH(PCI)BE-H4A
	= = = :pansion =	= EAD(PCI)BE = EAD(PCI)BE = EAD(PCI)BE pansion system = EAD(CB)BE-N	= EAD(PCI)BE + = EAD(PCI)BE + = EAD(PCI)BE + pansion system = EAD(CB)BE-N +

BOX Computers

Panel Computers

Flat Panel Displays

Options

Industrial PC VPC

BTO PCs Solution-ePC

Analog I/O

Digital I/O

Counter & Motion Controller

Communications

GPIB

Software

Accessories & Cables

Remote I/O

Wireless LAN FLEXLAN Image Distribution Unit FlexNetViewer

Solutions / Services

L-08

Lineup

Expansion Adapte

Chassis

Expansion Adapte

Chassis

Chassis

ISA Bus Unit

Bus Expansion Adapter

Bus Converter Adapter

Parts of Maintenance

about

вох Computers

Computers

Flat Panel Displays

Options

Industrial PC

BTO PCs Solution-ePC

Analog I/O

Digital I/O

Counter & Motion Controller

Communications

GPIB

Software

Accessories &

Remote I/O

Wireless LAN FLEXLAN

mage Distribution Unit

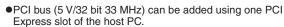
Solutions / Services

Express





Bus Extender PCI Express bus slot Expansion Adapter (Host PC) **EAD-BE-LPE**



- Expansion chassis can be selected to meet the required number of PCI bus slot and size of add-on board.
- •The expansion chassis power supply can be turned on & off with the host PC power supply.
- Both Low Profile and Standard PCI slots are supported by using the included bracket.

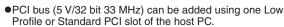








Bus Extender LPCI bus slot Expansion Adapter (Host PC) EAD(LPCI)BE



- Expansion chassis can be selected to meet the required number of PCI bus slot and size of add-on board.
- ●The expansion chassis power supply can be turned on & off with the host PC power supply.
- Both Low Profile and Standard PCI slots are supported by using the included bracket.



RoHS



Bus Extender PCI bus slot Expansion Adapter (Host PC) EAD(PCI)BE

- ●PCI bus (5 V/32 bit 33 MHz) can be added using one PCI slot of the host PC.
- Expansion chassis can be selected to meet the required number of PCI bus slot and size of add-on board.
- The expansion chassis power supply can be turned on & off with the host PC power supply.

L-09

Lineup

Chassis

Expansion Adapte

Chassis

Expansion Adapte

Chassis ISA Bus Unit

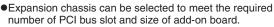
Bus Expansion Bus Converter

Parts of Maintenance Exchange

(€

Bus Extender CardBus slot expansion adapter (Host PC) EAD(CB)BE-N

●PCI bus (5 V/32 bit 33 MHz) can be added using one CardBus slot of the host PC.



The expansion chassis power supply can be turned on & off with the host PC power supply.

 Supported OS: Windows 7, Windows Vista, Windows XP, Windows 2000, Windows Me, Windows 98SE, Windows 98

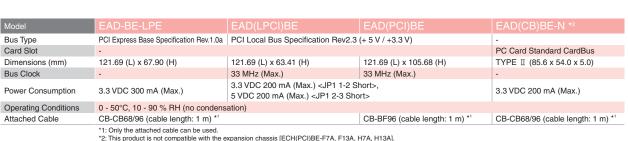






 A dedicated device driver needs to be installed under Windows XP and Windows 2000. The device driver of the latest version is available in our website

Windows NT4.0 and Windows 95 are not supported.



Note

As shown on the side of product's images, RoHS compliant (1998) is a CONTEC original marking for RoHS-compliant products.

Bus Extender PCI bus expansion chassis





(€



(x2 Short size slots, AC Adapter) ECH(PCI)BE-H2B



PCI bus expansion chassis

(x4 Short size slots, AC Adapter)

Bus Extender

ECH(PCI)BE-H4B

- ●2x PCI expansion slots
- Length accommodates short-size PCI add-on boards (5 V/32 bit)
- ●The chassis power supply can be turned on & off with the host PC power supply.
- Equipped with a built-in cooling fan
- •The compact chassis design combines space-saving system configuration with portability.

Slots

Length accommodates short-size

The chassis power supply can

PCI add-on boards (5 V/32 bit)

be turned on & off with the

•The compact chassis design

host PC power supply. ● Equipped with a built-in cooling fan

Size

Including AC adapter

4x PCI expansion slots

Bus Extender

ECH(PCI)BE-F2B

PCI bus expansion chassis

(x2 Long size slots, AC Adapter)



2x PCI expansion slots

host PC power supply.

Equipped with a built-in

cooling fan

Length accommodates long-

size PCI add-on boards (5 V/

•The chassis power supply can be turned on & off with the

•The compact chassis design

Size

Short

Size

combines space-saving

system configuration.

Including AC adapter

Slots





BOX

Computers Panel Computers

Flat Panel Displays

Industrial PC VPC

BTO PCs Solution-ePC

Analog I/O

Digital I/O

Counter & Motion Controller

Serial

GPIB

Software

Accessories & Cables

Remote I/O

Wireless LAN FLEXLAN Image Distribution Unit

Solutions / Services



Bus Extender PCI bus expansion chassis

(x4 Long size slots, AC Adapter) ECH(PCI)BE-F4B

RoHS



71.0 (W) x 360.0 (D) x 144.0 (H)

(no rubber foot)

1.6 ka

- 4x PCI expansion slots
- Length accommodates long-size PCI add-on boards (5 V/32 bit)
- •The chassis power supply can be turned on & off with the host PC power supply.
- Equipped with a built-in cooling fan
- The compact chassis design combines space-saving system configuration.

112.0 (W) x 360.0 (D) x 144.0 (H)

(no rubber foot)

2.0 kg

Including AC adapter

combines space-saving system configuration with RoHS portability. Including AC adapter Bus Type PCI Local Bus Specification Rev2.3 (+5 VDC) Address Space Memory: 32-bit addressing, I/O: 32-bit addressing INTA - INTD Interrupt Level 33 MHz (Max.) Bus Clock 2 (Short-size) 4 (Short-size) 4 (Long-size) User Slots 2 (Long-size) Installable Board (mm) 176.5 (L) x 107 (H) 313.8 (L) x 107 (H) Power Supply Capacity The output current shall not exceed the following values +5 VDC: 7 A, +3.3 VDC: 3 A, +12 VDC: 1.5 A, -12 VDC: 0.3 A (Max.) AC Input Voltage 100 - 240 VAC

1.5 ka

Overall Maximum Power Supply Capacity 60 W Operating Conditions

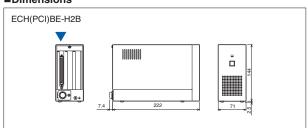
0 - 50°C, 20 - 80 % RH (no condensation) 71.0 (W) x 222.0 (D) x 144.0 (H) 112.0 (W) x 222.0 (D) x 144.0 (H) (no rubber foot)

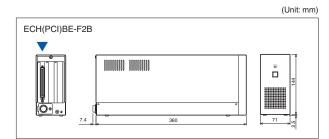
Dimensions (mm) (no rubber foot) Weight of Chassis 1.2 kg Weight of AC Adapter 0.9 kg

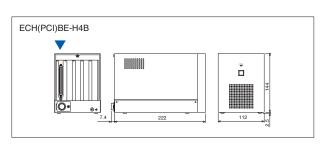
As shown on the side of product's images, RoHS compliant (is a CONTEC original marking for RoHS-compliant products.

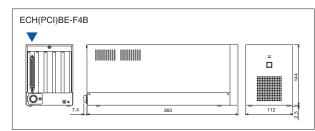
■Dimensions

Note:









L-10

Lineup

Expansion Adapte

Chassis

Expansion Adapte

Expansion Adapte

Chassis ISA Bus Unit

Bus Expansion Adapter Bus Converter Adapter

Parts of Maintenance

Exchange

(x4 Short size slots, On board Power)

about

BOX Computers

Panel Computers

Flat Panel Displays

Options

Industrial PC VPC

BTO PCs Solution-ePC

Analog I/O

Digital I/O

Counter & Motion Controller

Communications

GPIB Communications

Software

Accessories &

Remote I/O

Wireless LAN FLEXLAN Image Distribution Unit FlexNetViewer

Solutions / Services

L-11

Lineup

Expansion Adapte Chassis

Expansion Adapter

Expansion Adapte

Chassis

ISA Bus Unit

Bus Expansion Bus Converter Adapter Parts of Maintenance Exchange Bus Extender

ECH(PCI)BE-H4A

PCI bus expansion chassis



4x PCI expansion slots

32 bit)

Length accommodates short-

size PCI add-on boards (5 V/

•The chassis power supply can

be turned on & off with the

host PC power supply.







Bus Extender PCI bus expansion chassis







(x7 Short size slots, On board Power) ECH(PCI)BE-H7A



- ●7x PCI expansion slots
- Length accommodates shortsize PCI add-on boards (5 V/ 32 bit)
- •The chassis power supply can be turned on & off with the host PC power supply.

Bus Extender

RoHS

PCI bus expansion chassis





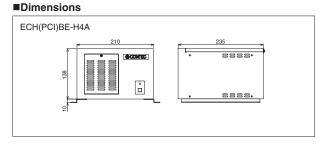


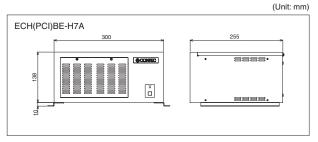
(x13 Short size slots, On board Power) ECH(PCI)BE-H13A

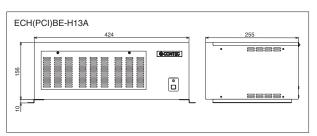


- ●13x PCI expansion slots
- Length accommodates shortsize PCI add-on boards (5 V/ 32 bit)
- •The chassis power supply can be turned on & off with the host PC power supply.

Model	ECH(PCI)BE-H4A	ECH(PCI)BE-H7A *5	ECH(PCI)BE-H13A *5					
Bus Type	PCI Local Bus Specification Rev2.3	CI Local Bus Specification Rev2.3 (+5 VDC)						
Address Space	Memory: 32-bit addressing, I/O: 32-	emory: 32-bit addressing, I/O: 32-bit addressing						
Interrupt Level	INTA - INTD	TA - INTD						
Bus Clock	33 MHz (Max.)	MHz (Max.)						
User Slots	4 (Short-size)	7 (Short-size)	13 (Short-size)					
Installable Board (mm)	176.5 (L) x 107 (H)	76.5 (L) x 107 (H)						
Power Supply Capacity	+5 VDC: 11.3 A, +3.3 VDC: 6 A,		+5 VDC 18 A *2, +3.3 VDC: 15 A *2,					
(Max.)	+12 VDC: 3 A, -12 VDC: 0.7 A	+12 VDC: 3 A, -12 VDC: 0.7 A +12 VDC: 0.8 A						
AC Input Voltage	115/230 VAC (switch selectable)	115/230 VAC (switch selectable)						
Overall Maximum Power	130 W * ³		0 - 30°C: 230 W, 30 - 40°C: 205 W,					
Supply Capacity*1	130 W		40 - 50°C: 175 W *4					
Operating Conditions	0 - 50°C, 20 - 80 % RH (no condens	sation)						
Dimensions (mm)	210.0 (W) x 235.0 (D) x 138.0 (H)	300.0 (W) x 138.0 (H) x 255.0 (L)	424.0 (W) x 156.0 (H) x 255.0 (L)					
Dimensions (mm)	(no fittings)	(no fittings)	(no fittings)					
Weight	3.5 kg 5.0 kg 7.5 kg							
Note:	*1: AC input line voltage range: 90 - 132 VAC and 180 - 250 VAC. *2: The sum of +5 VDC and +3.3 VDC must not exceed 90 W. *3: Condition with CE marking: 130 W at 40°C. *4: Condition with CE marking: 175 W at 50°C. *5: This product cannot be used with the expansion adapter [EAD (CB) BE].							
	As shown on the side of product's images, RoHS compliant 🕮 is a CONTEC original marking for RoHS-compliant products.							







Bus Extender PCI bus expansion chassis



(x7 Long size slots, On board Power) ECH(PCI)BE-F7A



Bus Extender PCI bus expansion chassis

ECH(PCI)BE-F13A



32 bit)

(x13 Long size slots, On board Power)



●13x PCI expansion slots

Length accommodates long-

size PCI add-on boards (5 V/

•The chassis power supply can

be turned on & off with the

host PC power supply.





BOX

Computers Panel Computers

Flat Panel Displays

Options

Industrial PC VPC

BTO PCs Solution-ePC

Analog I/O

Digital I/O

Counter & Motion Controller

Serial Communications GPIB

Communications

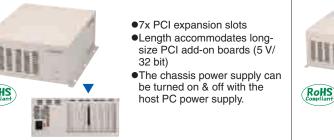
Software

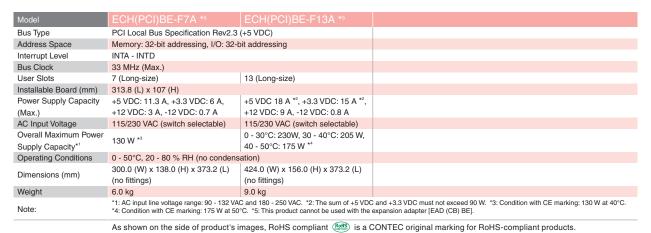
Accessories & Cables

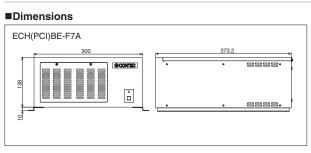
Remote I/O

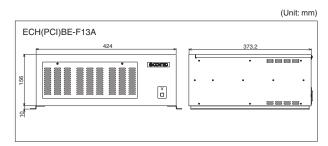
Wireless LAN FLEXLAN Image Distribution Unit FlexNetViewer

Solutions / Services

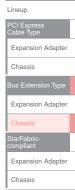








L-12



ISA Bus Unit

Bus Expansion Adapter Bus Converter Adapter Parts of Maintenance Exchange

about

BOX Computers

Panel Computers

Flat Panel Displays

Options

Industrial PC VPC

BTO PCs Solution-ePC

Analog I/O

Digital I/O

Counter & Motion Controller

Communications

GPIB Communications

Expansion Unit / Bus Adapter

Software

Accessories & Cables

Remote I/O

Wireless LAN FLEXLAN

FlexNetViewer

Services

L-13

Lineup

Chassis

Chassis ISA Bus Unit

Bus Expansion

Bus Converter

Parts of Maintenance Exchange

Expansion Adapte

Expansion Adapte

StarFabric-compliant Selecting Optimal Expansion Adaptor and Expansion Chassis

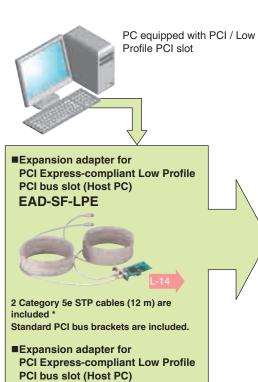
StarFabric-compliant method is optimal when measurement control is performed in a place distant from the PC (up to 12 m). When using an expansion chassis in close proximity to the host PC, L-08 select from the bus extension types.

CONTEC offers 23 different configurations based on the type of host PC, needed number and lengths of PCI slots.

■Expansion Adapter

equipped with



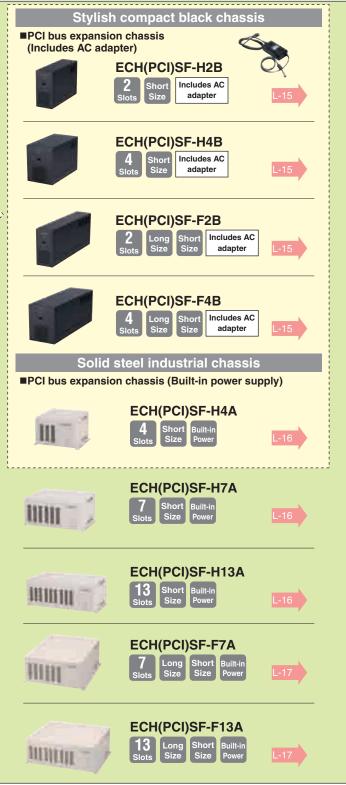


EAD(LPCI)SF

2 Category 5e STP

cables (12 m) are included *

Standard PCI bus brackets are included.



Short size: A short-size PCI board can be installed.

Long size: A long-size PCI board bus can be installed.

* Category 5e (for gigabit Ethernet) twist pair cable can be used. In noisy environment, please use shielded type (STP).

This may not operate properly depending on combinations of expansion adapter/chassis, installation board/PC.

RoHS

BOX Computers Panel

Computers

Flat Panel

Displays

Options

BTO PCs

VPC

Industrial PC

Solution-ePC

Analog I/O

Digital I/O

Counter & Motion Controller Serial

Communications

GPIB

Expansion Unit / Bus Adapter



StarFabric-compliant

PCI Express bus slot Expansion Adapter (Host PC)

EAD-SF-LPE

- PCI bus (5 V/32 bit 33 MHz) can be added using one PCI Express slot of the host PC.
- 12 m PCI bus expansion and high-speed serial transfer (2.5 Gbps) are supported.
- PCI-bus compatibility helps users to use PCI boards in expansion units without changing existing software.
- •Uses noise resistant Category 5e STP cable easy wiring and installation
- Expansion chassis can be selected to meet the required number of PCI bus slots and size of add-on board.
- •The expansion chassis power supply can be turned on & off with the host PC power supply.
- Both Low Profile and Standard PCI slots are supported by using the included bracket.







StarFabric-compliant

PCI Express bus slot Expansion Adapter (Host PC)

EAD(LPCI)SF

- PCI bus (5 V/32 bit 33 MHz) can be added using one PCI slot of the host PC.
- 12 m PCI bus expansion and high-speed serial transfer (2.5 Gbps) are supported.
- PCI-bus compatibility helps users to use PCI add-on boards in expansion units without changing existing software.
- •Uses noise resistant Category 5e STP cable easy wiring and installation
- Expansion chassis can be selected to meet the required number of PCI bus slot and size of add-on board.
- •The expansion chassis power supply can be turned on & off with the host PC power supply.
- Both Low Profile and Standard PCI slots are supported by using the included bracket.



Accessories & Cables

Remote I/O

Software

Wireless LAN FLEXLAN

Image Distribution Unit FlexNetViewer

Solutions / Services

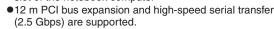


StarFabric-compliant

PCI Express bus slot Expansion Adapter (Host PC)

EAD(CB)SF

●PCI bus (5 V/32 bit 33 MHz) can be added using CardBus slot of the notebook computer



 PCI-bus compatibility helps users to use PCI add-on boards in expansion units without changing existing software.

•Uses noise resistant Category 5e STP cable - easy wiring and installation

Expansion chassis can be selected to meet the required number of PCI bus slot and size
of add-on board.

•The expansion chassis power supply can be turned on & off with the host PC power supply.





 Dedicated device driver must be installed. The device driver of the latest version is available in our website.

PCI Local Bus Specification PC Card Standard-compliant PCI Express Base Specification Bus / Dimensions (mm) Rev2.2 (+5 V/+3.3) / 121.69 (L) x CardBus / TYPE II (119.0 x 54.0 x Rev. 1.0a / 121.69 (L) x 67.90 (H) 63.41 (H) 3.3 VDC 450 mA (JP1 1-2 short) Power Consumption 3.3 VDC 700 mA (Max.) 3.3 VDC 450 mA (Max.) 5 VDC 350 mA (JP1 2-3 short) 0 - 50°C, 10 - 90% RH 0 - 50°C, 20 - 90%RH Operating Conditions (no condensation) (no condensation) Attached Cable *1 Category 5e STP cable 12 m x2 *1: Category 5e (for gigabit Ethernet) twist pair cable can be used. In any environment where there are a lot of noises, please use a shield type (STP).
*2: This product is not compatible with the expansion chassis [ECH(PCI)SF-F7A, F13A]. As shown on the side of product's images, RoHS compliant (is a CONTEC original marking for RoHS-compliant products.

Lineup

RoHS

PCI Express Cable Type

Expansion Adapte
Chassis

Bus Extension Type

Expansion Adapter

Chassis

arFabric-

xnansion Adanter

Chassis

ISA Bus Unit

ISA BUS UTIL

Bus Expansion Adapter

Bus Converter Adapter

Parts of Maintenance Exchange

about CONTEC

вох Computers

Panel Computers

Flat Panel Displays

Industrial PC VPC

BTO PCs Solution-ePC

Analog I/O

Digital I/O

Counter & Motion Controller

Communications

Software

Accessories &

Remote I/O

Wireless LAN FLEXLAN mage Distribution Unit

Solutions / Services

StarFabric-compliant PCI bus expansion chassis

ECH (PCI) SF-H2B

(x2 Short size slots, AC Adapter)

RoHS









●2x PCI expansion slots

- Length accommodates short-size PCI add-on boards (5 V/32 bit)
- The chassis power supply can be turned on & off with the host PC power supply.
- Equipped with a built-in cooling fan
- •The compact chassis design combines space-saving system configuration with portability.
- Including AC adapter

StarFabric-compliant PCI bus expansion chassis









(x2 Long size slots, AC Adapter) ECH (PCI) SF-F2B

- 2x PCI expansion slots
 - Length accommodates longsize PCI add-on boards (5 V/ 32 bit)
 - The chassis power supply can be turned on & off with the host PC power supply.
 - Equipped with a built-in cooling fan
 - The compact chassis design combines space-saving system configuration.
 - Including AC adapter

StarFabric-compliant PCI bus expansion chassis











(x4 Short size slots, AC Adapter) ECH (PCI) SF-H4B

- 4x PCI expansion slots
- Length accommodates short-size PCI add-on boards (5 V/32 bit)
- •The chassis power supply can be turned on & off with the host PC power supply.
- Equipped with a built-in cooling fan

StarFabric-compliant PCI bus expansion chassis







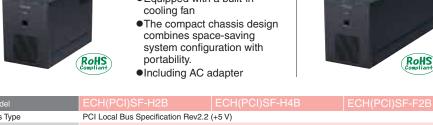




(x4 Long size slots, AC Adapter) ECH (PCI) SF-F4B

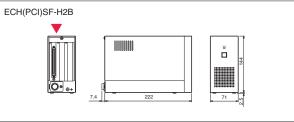
- 4x PCI expansion slots
- Length accommodates longsize PCI add-on boards (5 V/ 32 bit)
- The chassis power supply can be turned on & off with the host PC power supply.
- Equipped with a built-in cooling fan
- The compact chassis design combines space-saving system configuration.
- Including AC adapter

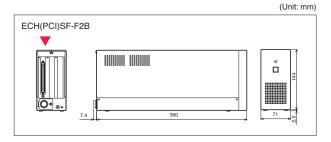


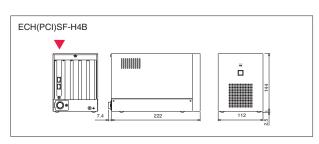


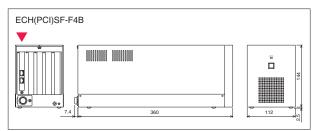
Bus Type Address Space Memory: 32-bit addressing, I/O: 32-bit addressing INTA - INTD Interrupt Level Bus Clock 33 MHz (Max.) User Slots 4 (Long-size) 2 (Short-size) 4 (Short-size) 2 (Long-size) Installable Board (mm) 176.5 (L) x 107 (H) 313.8 (L) x 107 (H) Power Supply Capacity The output current shall not exceed the following values +5 VDC: 7 A. +3.3 VDC: 3 A. +12 VDC: 1.5 A . -12 VDC: 0.3 A (Max.) AC Input Voltage 100 - 240 VAC Overall Maximum Power Supply Capacity 60 W Operating Conditions 0 - 50°C, 20 - 80 % RH (no condensation) 71.0 (W) x 222.0 (D) x 144.0 (H) 112.0 (W) x 222.0 (D) x 144.0 (H) 71.0 (W) x 360.0 (D) x 144.0 (H) 112.0 (W) x 360.0 (D) x 144.0 (H) Dimensions (mm) (no rubber foot) (no rubber foot) (no rubber foot) (no rubber foot) Weight of Chassis 1.6 kg 1.2 kg 1.5 kg 2.0 ka Weight of AC Adapter 0.9 kg Note: As shown on the side of product's images, RoHS compliant (is a CONTEC original marking for RoHS-compliant products.

■Dimensions









Lineup

Expansion Adapte Chassis

Expansion Adapte

Chassis

Expansion Adapte

ISA Bus Unit

Bus Expansion Bus Converter

Parts of Maintenance Exchange

32 bit)

StarFabric-compliant PCI bus Expansion Chassis



(x4 Short size slots, On board Power) ECH(PCI)SF-H4A



- 4x PCI expansion slots
- Length accommodates shortsize PCI add-on boards (5 V/ 32 bit)
- •The chassis power supply can be turned on & off with the

StarFabric-compliant PCI bus Expansion Chassis

(x7 Short size slots, On board Power)



●7x PCI expansion slots

Length accommodates short-

size PCI add-on boards (5 V/

•The chassis power supply can

be turned on & off with the

host PC power supply.





BOX Computers

Panel Computers

Flat Panel Displays

Options

Industrial PC VPC

BTO PCs Solution-ePC

Analog I/O

Digital I/O

Counter & Motion

Controller Serial

Communications GPIB

Communications

Software

Accessories & Cables

Remote I/O

Wireless LAN FLEXLAN **Image Distribution Unit** FlexNetViewer

Solutions / Services



host PC power supply.



ECH(PCI)SF-H7A

StarFabric-compliant PCI bus Expansion Chassis

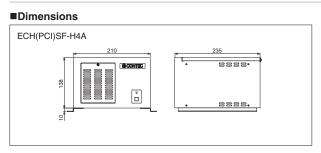


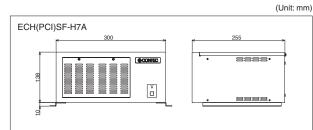
(x13 Short size slots, On board Power) ECH(PCI)SF-H13A

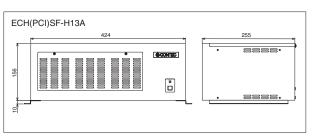


- ●13x PCI expansion slots
- Length accommodates shortsize PCI add-on boards (5 V/ 32 bit)
- •The chassis power supply can be turned on & off with the host PC power supply.

Model	ECH(PCI)SF-H4A	ECH(PCI)SF-H7A *5	ECH(PCI)SF-H13A *5					
Bus Type	PCI Local Bus Specification Rev2.2	CI Local Bus Specification Rev2.2 (+5 V)						
Address Space	Memory: 32-bit addressing, I/O: 32-b	oit addressing						
Interrupt Level	INTA - INTD							
Bus Clock	33 MHz (Max.)							
User Slots	4 (Short-size)	7 (Short-size)	13 (Short-size)					
Installable Board (mm)	176.5 (L) x 107 (H)	176.5 (L) x 107 (H)						
Power Supply Capacity	+5 VDC: 18 A*2, +3.3 VD							
(Max.)	+5 VDC: 11.3 A, +3.3 VDC: 6 A, +12	+5 VDC: 11.3 A, +3.3 VDC: 6 A, +12 VDC: 3 A, -12 VDC: 0.7 A						
AC Input Voltage	115/230 VAC (switch selectable)							
Overall Maximum Power	130 W *3		0 - 30°C: 230 W, 30 - 40°C: 205 W,					
Supply Capacity *1	130 W		40 - 50°C: 175 W *4					
Operating Conditions	0 - 50°C, 20 - 80 % RH (no condens	ation)						
Dimensions (mm)	210.0 (W) x 235.0 (D) x 138.0 (H)	300.0 (W) x 138.0 (H) x 255.0 (L)	424.0 (W) x 156.0 (H) x 255.0 (L)					
Dimensions (min)	(no fittings)	(no fittings)	(no fittings)					
Weight	3.5 kg	7.5 kg						
Note:	*1: AC input line voltage range: 90 - 132 VAC and 180 - 250 VAC. *2: The sum of +5 VDC and +3.3 VDC must not exceed 90 W. *3: Condition with CE marking: 130 W at 40°C. *4: Condition with CE marking: 175 W at 50°C. *5: This product cannot be used with the expansion adapter [EAD(CB)SF].							
	As shown on the side of product's images, RoHS compliant (is a CONTEC original marking for RoHS-compliant products.							







L-16

Lineup

Expansion Adapte

Chassis

Expansion Adapte

Chassis

Expansion Adapte

ISA Bus Unit

Bus Expansion Adapter

Bus Converter Adapter

Parts of Maintenance Exchange

(x7 Long size slots, On board Power)

about

вох Computers

Panel Computers

Flat Panel Displays

Options

Industrial PC VPC

BTO PCs Solution-ePC

Analog I/O

Digital I/O

Counter & Motion Controller

Communications

GPIB Communications

Software

Accessories &

Remote I/O

Wireless LAN FLEXLAN Image Distribution Unit FlexNetViewer

Solutions / Services

StarFabric-compliant PCI bus Expansion Chassis

ECH(PCI)SF-F7A













StarFabric-compliant PCI bus Expansion Chassis











(x13 Long size slots, On board Power) ECH(PCI)SF-F13A



- ●13x PCI expansion slots
- Length accommodates longsize PCI add-on boards (5 V/ 32 bit)
- The chassis power supply can be turned on & off with the host PC power supply.



●7x PCI expansion slots

- Length accommodates longsize PCI add-on boards (5 V/ 32 bit)
- •The chassis power supply can be turned on & off with the host PC power supply.

L-17

Lineup

Expansion Adapte

Chassis

Expansion Adapter

Chassis

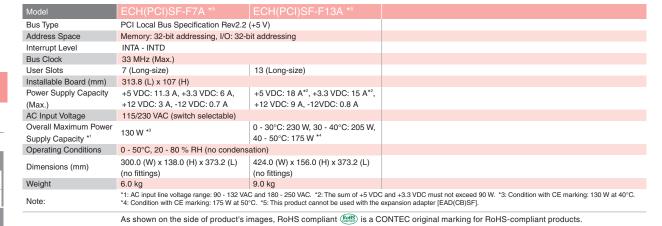
Expansion Adapte

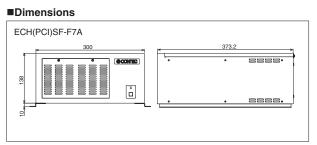
ISA Bus Unit

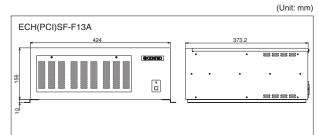
Bus Expansion

Bus Converter

Parts of Maintenance Exchange







Desktop ISA Bus Unit (x4 Middle size slots) FA-PAC(PC)M4D











- 4-slots ISA bus passive backplane. Including an AC adapter
- This can be used as small size ISA bus expansion unit together with an optional bus adapter.
- •This can also be used as small size CPU unit together with an ISA bus CPU board

Model	FA-PAC (PC) M4D		
User Slots	4 (Middle size) *1		
Installable Board (mm)	220 (L) x 122 (H) Max.		
Power Supply Capacity	+5 V 8.0 A, -5 V 0.3 A, +12 V 1.5 A, -12 V 1.0 A*2		
AC Input Voltage	85 - 250 VAC (50 - 60 Hz)		
Input Current	1.5 A		
Rack Mount	-		
FAN	1 (front)		
Drive Bay	-		
Weight	4.5 kg		
Note:	*1: These products can be used for both CPU unit and I/O expansion unit. To use the products as I/O expansion unit, 1 slot is used for I/O bus adapter. I/O bus adapter are purchased separately. *2: Total maximum output electricity is 50 W.		

PCI to PCI Bus Expansion Adapter Set (7 Slot) **BUF(PCI)**



PCI to PCI Bus Expansion Adapter Set (13 Slot) BUF(PCI)13







- External backplane expansion slots function as regular PCI
- Using ATX power supply, chassis power supply can be turned on & off with the host PC power supply.
- * It cannot be used in PC-9800 series.



- External backplane expansion slots function as regular PCI
- Using ATX power supply, chassis power supply can be turned on & off with the host PC power supply.
- * It cannot be used in PC-9800 series.

Model	BUF (PCI)	BUF (PCI) 13	
Bus Type	32-bit PCI bus Rev2.1 (+5V)		
Address Space	Memory: 32-bit addressing, I/O: 32-bit addressing		
User Slots	7 Slots 13 Slots		
Interrupt Level	INTA - INTD		
DMA	-		
Accessible I/O space			
Accessible Memory	-		
Bus Clock	33 MHz (Max.)		
Power Consumption	BUS-PC(PCI) (PC side): +5 VDC 700 mA (Max.)/+5 VDC 300 mA (Typ.) BUS-PAC(PCI) (Extension side): +5 VDC 700 mA (Max.)/+5 VDC 500 mA (Typ.)	BUS-PC(PCI) (PC side): +5 VDC 700 mA (Max.)/ +5 VDC 300 mA (Typ.) BUS-PAC(PCI) (Extension side): 5 VDC 1500 mA (Max.)/5 VDC 900 mA (Typ.)	
Operating Conditions	0 - 50°C, 30 - 90 % RH (no condensation)		
Dimensions (mm)	BUS-PC(PCI) (PC side): 122.0 (L) x 107.0 (H) x 18.5 (D), BUS-PAC(PCI) (Extension side): 122.0 (L) x 107.0 (H) x 18.5 (D), PCNB (T) (Mother board): 220.0 (L) x 185.0 (H) x 20.0 (D)	BUS-PC(PCI) (PC side): 122.0 (L) x 107.0 (H) x 18.5 (D), BUS-PAC(PCI) (Extension side): 122.0 (L) x 107.0 (H) x 18.5 (D), PC-MB14(PCI) (Mother board): 311.15 (L) x 185.0 (H) x 20.0 (D)	
Attached Cable	96-pin shielded cable, 1 m*1		
Note:	*1: Only the attached cable can be used. *2: This product provides I/O access to ISA bus board. It is subject to software and hardware restrictions. Please vi		

BOX

Computers

Panel Computers

Flat Panel Displays

Options

Industrial PC VPC

BTO PCs Solution-ePC

Analog I/O

Digital I/O

Counter & Motion

Controller Serial

Communications GPIB

Communications

Software

Accessories & Cables

Remote I/O

Wireless LAN FLEXLAN Image Distribution Unit FlexNetViewer

Solutions / Services

L-18

Lineup

Expansion Adapte

Chassis

Expansion Adapte

Chassis

Expansion Adapte

Chassis

Bus Converter Adapter Parts of Maintenance

about CONTEC

BOX Computers

Panel Computers

Flat Panel Displays

Options

Industrial PC VPC

BTO PCs Solution-ePC

Analog I/O

Digital I/O

Counter & Motion Controller

Communications

GPIB Communications

Expansion Unit I Bus Adapter

Software

Accessories & Cables

Remote I/O

Wireless LAN FLEXLAN Image Distribution Unit

FlexNetViewer

Solutions / Services PCMCIA to ISA Bus Bus Converter Adapter BUF-CARD(PC)P



Standard ISA slots can be

connected from a PC Card

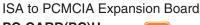
(PCMCIA) slot of host PC.

Supported OS: Windows

XP/2000/Me/98/95/3.1,

MS-DOS





PC-CARD(PC)H



- ●Compatible with PC card Type I , Type II , and Type III based on PCMCIA 2.1/JEIDA 4.2 or late
- Maximum 2pcs. can be mounted simultaneously on the same system.



Bus Type PCMCIA to ISA Bus expansion JEIDA Ver.4.1/PCMCIA Rel.2.0 Card Slot (TYPE Ⅱ) PC Card: JEIDA 4.2/PCMCIA 2.0 Card Type or later Type Ⅰ, Ⅱ, Ⅲ (Power consumption: 1.2 A Max.) I/O Address 2 port (X3E0h, X3E1) DMA Not supported Bus Clock Data Bus Width 8-bit (16-bit not available) 32 consecutive ports can be selected as following: 220-23F, 240-25F, 260-27F, 280-29F, 2A0-2BF, Accessible I/O space 2C0-2DF, 2E0-2FF, 300-31F, 320-33F, 340-35F, 360-37F, 380-39F, 3A0-3BF, 3C0-3DF, 3E0-3FF Accessible Memory Not supported Interrupt Level One of IRQ 3, 5, 7, 9 to 12 or 15 BUS-CARD(PM)P (PC side): +5 VDC 100 mA, 5 VDC 150 mA Power Consumption BUS-CARD(PC) (Extension side): (without PC Card) +5 VDC 500 mA 0 - 50°C, 20 - 90 % RH Temperature: 0 - 50°C, Humidity: Operating Conditions (no condensation) 0 - 90 %RH (no condensation) BUS-CARD(PM)P (PC side): 54.0 (L) x 85.6 (H) x 5.0 (D) Dimensions (mm) BUS-CARD(PC) (Extension side): 160.0 (L) x 122.0 (H) x 18.5 (D) AT-compliant PC equipped with a card slot compatible with a JEIDA 4.1 / PCMCIA 2.0 or later Type $\,\mathbb{I}\,$ Applicable Models card (should be compatible with Card Service Release 2.0 or later) Attached Cable 32-pin shielded cable, 1 m *2 Bus / ISA / 160 (L) x 107 (H) Size (mm) *1: There might be boards that cannot be used in some conditions. Please visit our website for details. *2: Only the Attached cable can be used Note

L-19

Lineup

Chassis

PCI Express Cable Type

Expansion Adapte

Bus Extension Tvr

Expansion Adapter

Chassis

Compliant

Expansion Adapte

Chassis ISA Rus Unit

Bus Expansion Adapter

Parts of Maintenance Exchange

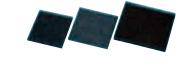
■Parts of Maintenance Exchange

	Model	Chassis	
AC power supply	POW300	FA-PAC(PC)F14DRV, FA-PAC(PC)F14DR, FA-UNIT-F6DR, FA-UNIT-F8DR/M, FA-UNIT-F8DR	
	POW301	FA-PAC(PC)H12RF	
	POW100	FA-UNIT-F11RFV, FA-UNIT-F6RFV, FA-UNIT-M11RFV, FA-UNIT-M6RFV	
	POW300X	FA-UNIT-F14BE, FA-UNIT-F14ME, FA-UNIT-F11BE, FA-UNIT-F11ME, FA-UNIT-M11BE, FA-UNIT-M11ME, FA-UNIT-M6BE, FA-UNIT-M4BE, FA-UNIT-F6BE/2U	
	POW250X	FA-PAC(PCI)F13, ECH(PCI)BE-F13A, ECH(PCI)SF-F13A, ECH(PCI)BE-H13A, ECH(PCI)SF-H13A	
	POW251X	FA-UNIT-H4BE	
	POW150X	FA-PAC(PCI) F7, FA-PAC(PCI)H4, ECH(PCI)BE-H4A, ECH(PCI)BE-F7A, ECH(PCI)SF-H4A, ECH(PCI)SF-F7A, ECH(PCI)BE-H7A, ECH(PCI)SF-H7A	
FAN	FAN1238	FA-PAC(PC)F14DRV, FA-UNIT-F8DR/M, FA-UNIT-F8DR, FA-UNIT-** RFV series *1	
	FAN0925	FA-PAC(PC)F14DR, FA-PAC(PC)H12RF, FA-UNIT-F6DR, FA-PAC(PCI)F13, FA-PAC(PCI)F7, FA-PAC(PCI)H4, ECH(PCI)BE-H4A, ECH(PCI)BE-F7A, ECH(PCI)BE-F13A, ECH(PCI)SF-H4A, ECH(PCI)SF-F7A, ECH(PCI)SF-F7A, ECH(PCI)SF-F7A, ECH(PCI)SF-H3A,	
	FAN0820	FA-PAC(PC)M4D, FA-PAC(PC)H5DR	
FAN (with a sensor)	FAN1225S	FA-UNIT-F14BE, FA-UNIT-F14ME, FA-UNIT-F11BE, FA-UNIT-F11ME, FA-UNIT-M11BE, FA-UNIT-M6BE, FA-UNIT-M6BE, FA-UNIT-M4BE	
	FAN0925S	FA-UNIT-H4BE	
	FAN0825S	FA-UNIT-F14ME, FA-UNIT-F11ME, FA-UNIT-M11ME, FA-UNIT-F6BE/2U	
Filter (10 pcs)	FLT120	FA-PAC(PC)F14DRV, FA-UNIT-F8DR	
	FLT121	FA-UNIT-F14BE, FA-UNIT-F14ME, FA-UNIT-F11BE, FA-UNIT-F11ME, FA-UNIT-M11BE, FA-UNIT-M11ME, FA-UNIT-M6BE, FA-UNIT-M4BE, FA-UNIT-F8DR/M	
	FLT90	FA-UNIT-F6DR, FA-PAC (PCI) H4, ECH (PCI) BE-H4A, ECH (PCI) SF-H4A	
	FLT91	FA-PAC(PCI)F7, ECH(PCI)BE-F7A, ECH(PCI)SF-F7A, ECH(PCI)BE-H7A, ECH(PCI)SF-H7A	
	FLT92	FA-PAC(PCI)F13, ECH(PCI)BE-F13A, ECH(PCI)SF-F13A, ECH(PCI)BE-H13A, ECH(PCI)SF-H13A	
	FLT93	FA-UNIT-H4BE	
	FLT80	FA-PAC(PC)M4D, FA-PAC(PC)H5DR	
	FLT81	FA-UNIT-F6BE/2U	

^{*1:} Optional parts







about CONTEC вох Computers Panel Computers Flat Panel Displays Options

BTO PCs Solution-ePC

Industrial PC VPC

Analog I/O Digital I/O

Counter & Motion Controller

Serial Communications Communications

Software

Accessories & Cables

Remote I/O

Wireless LAN FLEXLAN Image Distribution Unit FlexNetViewer

Solutions / Services

L-20

Lineup

Expansion Adapter Chassis

Expansion Adapter

Chassis

Expansion Adapter

Chassis

ISA Bus Unit

Bus Expansion Adapter

Bus Converter Adapter