

EXPANSION UNIT BUS ADAPTER

An expansion system is used to expand the number of available PCI bus slots of either CONTEC industrial computers 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

We provide wide array of models to meet your desired bus specifications.

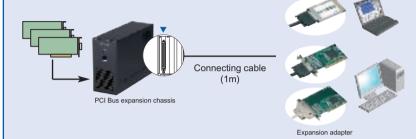
Bus Extension Type Expansion Adapter & Chassis

M-03

Standard Bus extension

This bus extension externally expands PCI bus and transmits signals directly between the expansion chassis and host PC. It is best suited for use in an environment where the measurement control is conducted in close proximity to the host PC.

* The expansion adapters to be inserted in the PC and expansion chassis are connected with a 1m-long connection cable.

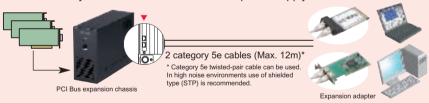


StarFabric-compliant Type Expansion Adapter & Chassis



StarFabric-compliant extension

With this style extension, you can conduct StarFabric-compliant high-speed serial transfer (2.5Gbps). The expansion adapters to be inserted into the PC and expansion chassis are connected using Category 5e cable creating easy wiring and installation. The included cable can be extended up to 12m, making it an optimal choice where measure / control is conducted at a distance from the host PC. PCI bus compliant, it allows you to construct a system without changing existing boards or software. The power supply of the expansion chassis can be controlled in synchronization with the host PC power supply.

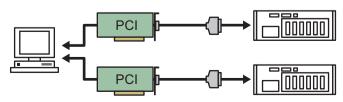


Caution:

Please note that the following expansion boards cannot be used inside an 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
- * For further details, please check the manual or visit our web site.

An expansion adapter is an adapter that connects a host PC to an expansion chassis for the purpose of extending high-speed signal transmission. It is not possible to link one expansion chassis to another expansion chassis due to resultant signal degradation. When using more than one expansion chassis, you must allocate an open slot to each chassis for a parallel connection.



■ Bus Extension Type Expansion Adapter & Chassis

Expansion Adapter

Name Type EAD(LPCI)BE For Low Profile PCI Bus slot EAD(PCI)BE For PCI Bus slot EAD(CB)BE For CardBus slot

PCI Bus Expansion Chassis

Name	Inst	allation T	уре	Slots	Installable Board	
INAITIE	Desktop	Rack Mount	Wall Mount	Siots	Long	Short
EAD(PCI)BE-H2B	0	_	_	2	×	0
EAD(PCI)BE-H4B	0	_	_	4	×	0
EAD(PCI)BE-F2B	0	_	_	2	0	0
EAD(PCI)BE-F4B	0	_		4	0	0
EAD(PCI)BE-H4A	0	0	0	4	×	0
EAD(PCI)BE-F7A	0	0	0	7	0	0
EAD(PCI)BE-F13A	0	0	0	13	0	0

■ StarFabric-compliant Type Expansion Adapter & Chassis

Expansion Adapter

Name	Туре
EAD(LPCI)SF	For Low Profile PCI Bus slot
EAD(CB)SF	For CardBus slot

● PCI Bus Expansion Chassis

Name	Inst	allation T	уре	Slots Installabl		le Board
name	Desktop	Rack Mount	Wall Mount	Siots	Long	Short
EAD(PCI)SF-H2B	0	_	_	2	×	0
EAD(PCI)SF-H4B	0	_	_	4	×	0
EAD(PCI)SF-F2B	0	_	_	2	0	0
EAD(PCI)SF-F4B	0	_	_	4	0	0
EAD(PCI)SF-H4A	0	0	0	4	×	0
EAD(PCI)SF-F7A	0	0	0	7	0	0
EAD(PCI)SF-F13A	0	0	0	13	0	0

Bus Expansion Adapter

Name	Туре	Backplane	Installable Unit of PCI Bus Expansion (FA-UNIT-**)		ion Adapter	
BUF(PCI)4	PCI → PCI (4 slots)	Included	F6DR	F6RFV	M6RFV	
BUF(PCI)	PCI → PCI (7 slots)	Included	F8DR	F8DR/M	F11RFV	M11RFV
BUF(PCI)13	PCI → PCI (13 slots)	Included	F8DR	F8DR/M		
BUF(PC)E	ISA → ISA	_	_	_	_	_

Bus Converter Adapter

Name	Туре
BUF-PCI(PC)	PCI → ISA
BUF-CARD(PC)P	PC Card → ISA
PC-CARD(PC)H	ISA → PC Card

Pictograms

Expansion adapter



Card

Bus

The product is compatible with PCI standard and can be used on PC equipped with PCI bus expansion slot.

The product supports CardBus that is a 32-bit bus compatible

with PC card standard.



The product is compatible with PCI standard/Low Profile PC board size standard. A bracket for PCI slot is standardly provided.

Expansion chassis



Maximum number of boards that can be installed



Maximum board size that can be installed



Expansion chassis is equipped with built-in power supply.

AC Adapter

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

news box

CONTEC
SOLUTION

Company Profile Box PCs

Panel PCs

Flat Panel Displays

Silicon Disk Drive

Options

Box PCs & Panel PCs with Windows CE

Analog I/O

Digital I/O

Counters & Motor Controls

Communication

GPIB

Remote I/O

Bus Expansion System
Software

Accessories & Cables

Distributed Monitor & Control Network: F&eIT

Multi-Programmable Display

Remote Monitoring Solution

Service & Products

M-02

Expansion Adapter

Expansion Chassis

compliant Type

Expansion Adapter

Expansion Chassis

Standard

PC Card

Media Converter

SA

news box

CONTEC SOLUTION

Company

Box PCs

Panel PCs

Flat Panel Displays

rial raties Displays

Silicon Disk Drive

Options

Box PCs & Panel PCs with Windows CE

Analog I/O

Digital I/O

Counters &

Motor Controls

Communication

GPIB
Remote I/O

Bus Expansion Systen

Software

Accessories & Cables

Distributed Monitor & Control Network: F&eIT

Multi-Programmable Display

Remote Monitoring Solution

Service & Products

M-03

Lineup

Bus Extension Ty

Expansion Chassis

compliant Type

Expansion Adapte

Expansion Chassis

Standard

PCI

PC Card

Media Converter

A dedicated connection cable (1m) is included.

A dedicated connection cable (1m) and standard PCI bus bracket

■ Expansion adapter for

EAD(PCI)BE

PCI bus slot (host PC)

are included.

M-04

M-04

Bus Extension Type Selecting Optimal Expansion Adapter and Expansion Chassis

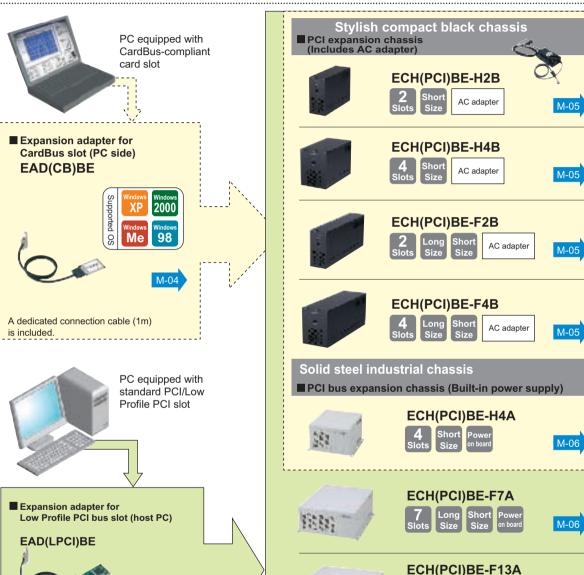
Bus Extension is best suited for use in an environment where the control is conducted in close proximity to the PC unit.

If the expansion unit needs to be further away (up to 12m - max), select from the StarFabric-compliant system - list on M-07

CONTEC offers 19 different configurations based on the type of host PC, needed number and lengths of PCI slots.

Expansion Adapter

Expansion Chassis



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

■ Note to customers using the CONTEC's conventional expansion units [FA-PAC(PCI) and NOTE-PAC(PC) Series]

When replacing conventional expansion units with expansion chassis and adapters, please refer to the following table so that you can purchase a complete unit with the same specifications as those of the conventional models:

PCI bus expansion system		Expansion adapter		Expansion chassis
FA-PAC(PCI)H4	=	EAD(PCI)BE	+	ECH(PCI)BE-H4A
FA-PAC(PCI)F7	=	EAD(PCI)BE	+	ECH(PCI)BE-F7A
FA-PAC(PCI)F13	=	EAD(PCI)BE	+	ECH(PCI)BE-F13A
CardBus to PCI bus ex	pansion s	system		
NOTE-PAC(PCI)H2	=	EAD(CB)BE	+	ECH(PCI)BE-H2B
NOTE-PAC(PCI)H4	=	EAD(CB)BE	+	ECH(PCI)BE-H4A

news box

CONTEC SOLUTION

Company Profile Box PCs

Panel PCs

Options Box PCs &

Analog I/O Digital I/O Counters &

Communication

GPIB Remote I/O Bus Expansion Syster

Software

Solution

Accessories & Cables

Distributed Monitor & Control Network: F&eIT Multi-Programmable Display

Remote Monitoring

Service & Products

Flat Panel Displays

Silicon Disk Drive

Panel PCs with Windows CE

Bus Expansion System

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





- PCI bus (5V/32bit 33MHz) can be added using one Low Profile or Standard PCI slot of the host PC.
- Expansion chassis can be selected to match required number of PCI slots and add-on board size.
- 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 PCI bus slot Expansion Adapter (Host PC) EAD(PCI)BE





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

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





- PCI bus (5V/32bit 33MHz) can be added using one CardBus slot of a Note-PC.
- Expansion chassis can be selected to match required number of PCI slots and add-on board size.
- The expansion chassis power supply can be turned on & off with the host PC power supply.
- Supported OS: Windows XP, Windows 2000, Windows Me, Windows 98SE and Windows 98.



Note

- A dedicated device driver needs to be installed under Windows XP and Windows 2000.
- Windows NT4.0 and Windows 95 are not supported.





M - 04

Lineur

Expansion Chassis

Expansion Adapter

Expansion Chassis

PC Card

Media Converter

Model	EAD(LPCI)BE	EAD(PCI)BE *2	EAD(CB)BE		
Bus type	PCI Local Bus Specification Rev2.3	(+5V / +3.3V)	-		
Card slot	-		CardBus compatible with PC Card Standard		
Dimensions (mm)	121.69(L) × 63.41(H)	121.69(L) × 105.68(H)	TYPE II (85.6 × 54.0 × 5.0)		
Bus Operating Clock	33MHz (Max.)		-		
Power Consumption (Max.)	3.3VDC 200mA (Max.) (JP1 1-2 Short) 5VDC 200mA (Max.) (JP1 2-3 Short)		3.3VDC 200mA (Max.)		
Operating Conditions	0~50°C, 10~90%RH (no condensation)				
Attached cable	CB-CB68/96 (cable length: 1m) *1	CB-BF96 (cable length: 1m) *1	CB-CB68/96 (cable length: 1m) *1		
Notes		1: Only the cable included with the unit can be used. 12: This product cannot be used with the [ECH(PCI)BE-F7A, F13A] expansion chassis.			

news box

CONTEC SOLUTION

Company

Box PCs

Panel PCs

Flat Panel Displays

Silicon Disk Drive

Ontions

Box PCs & with Windows CE

Analog I/O Digital I/O

Counters &

Motor Controls

Communication

Remote I/O

Software

Accessories & Cables

Distributed Monitor & Control Network: F&eIT

Multi-Programmable Display

Remote Monitoring

Solution

Service & Products

M - 05

ansion Chassis

Expansion Adapte Expansion Chassis

PC Card

Media Converter

Bus Extender

PCI bus expansion chassis (×2 Short size slots, AC Adapter)





PCI bus expansion chassis

(×4 Short size slots, AC Adapter)

Bus Extender

ECH(PCI)BE-H4B

2× PCI expansion slots

 Length accomodates short-size PCI add-on boards (5V/32bit)

Slots

Short Size

(€

- 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 an AC adapter

4× PCI expansion slots

portability

Including an AC adapter

add-on boards (5V/32bit)

Length accomodates short-size PCI

Chassis power supply can be turned

Equipped with a built-in cooling fan

on & off with the host PC power supply

The compact chassis design combines

space-saving system configuration with

Bus Extender

PCI bus expansion chassis

(×2 Long size slots, AC Adapter)

ECH(PCI)BE-F2B



2× PCI expansion slots

2

Slots

 Length accomodates long-size PCI add-on boards (5V/32bit)

Size

Size

- 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

Short

Size

Size

Including an AC adapter

Short (€ Size Slots

Bus Extender PCI bus expansion chassis (×4 Long size slots, AC Adapter)



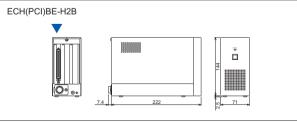
ECH(PCI)BE-F4B

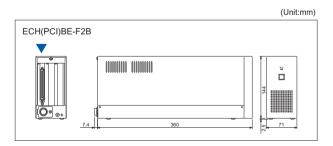


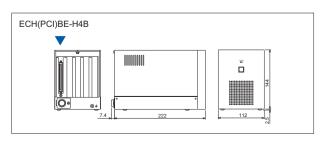
- 4× PCI expansion slots
- Length accomodates long-size PCI add-on boards (5V/32bit)
- Chassis power supply can be turned on & off with the host PC power supply
- Equipped with a built-in cooling fan
- The compact chassis design combines space-saving system configuration with portability
- Including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

Model	ECH(PCI)BE-H2B	ECH(PCI)BE-H4B	ECH(PCI)BE-F2B	ECH(PCI)BE-F4B		
Bus type	PCI Local Bus Specification Rev2.3	(+5VDC)				
Address Space	Memory: 32-bit addressing, I/O: 32-b	oit addressing				
Interrupt Level	INTA-INTD					
Bus Clock	33MHz (Max.)					
User slots	2 (Short-size)	4 (Short-size)	2 (Long-size)	4 (Long-size)		
Installable Board (mm)	176.5(L) × 107(H)		313.8(L) × 107(H)			
Power supply capacity (Max.)	Output current shall not exceed the following values.					
rower supply capacity (Max.)	+5VDC: 7A, +3.3VDC: 3A, +12VDC:	1.5A, -12VDC: 0.3A				
AC input voltage	100 to 240VAC					
Overall maximum power supply capacity	60W					
Operating Conditions	0~50°C, 20~80%RH (no condensation	on)				
Dimensions (mm)	71.0(W) × 222.0(D) × 144.0(H)	112.0(W) × 222.0(D) × 144.0(H)	71.0(W) × 360.0(D) × 144.0(H)	112.0(W) × 360.0(D) × 144.0(H)		
Weight of Chassis	1.2kg	1.5kg	1.6kg	2.0kg		
Weight of AC Adapter	0.9kg					
Note:						

■ Dimensions









Bus Extender Slots PCI bus Expansion Chassis (×4 Short size slots, On board Power) ECH(PCI)BE-H4A



Short

Size

On board

- 4× PCI expansion slots Length accomodates short-size PCI add-on boards (5V/32bit)
- The chassis power supply can be turned on & off with the power

Bus Extender PCI bus Expansion Chassis



7× PCI expansion slots

add-on boards (5V/32bit)



Length accomodates long-size PCI

Chassis power supply can be turned

on & off with the host PC power supply





CONTEC

SOLUTION

Company Profile Box PCs

Panel PCs

Flat Panel Displays

Silicon Disk Drive

Options

Box PCs & Panel PCs with Windows CE

Analog I/O

Digital I/O

Counters &

Communication

GPIB

Remote I/O

Software

Accessories & Cables

Distributed Monitor & Control Network: F&eIT

Multi-Programmable Display

Remote Monitoring Solution

Service & Products

M-06

Lineun

Expansion Adapte Expansion Chass

Expansion Adapte

Expansion Chassis

PC Card

Media Converter

(×7 Long size slots, On-board Power) ECH(PCI)BE-F7A



Bus Extender PCI bus Expansion Chassis (×13 Long size slots, On-board Power) ECH(PCI)BE-F13A



- 13× PCI expansion slots
- Length accomodates long-size PCI add-on boards (5V/32bit)
- Chassis power supply can be turned on & off with the host PC power supply

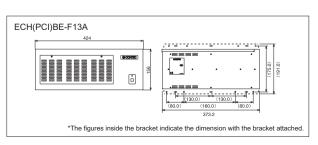
13 Short Long Size Size

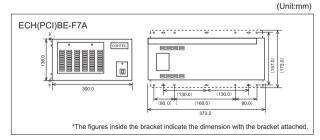
175007	
633	
	FIGURE THE STATE

Model	ECH(PCI)BE-H4A	ECH(PCI)BE-F7A *2	ECH(PCI)BE-F13A *2	
Bus type	PCI Local Bus Specification Rev2.3			
Address Space	Memory: 32-bit addressing, I/O: 32-b	oit addressing		
Interrupt Level	INTA-INTD			
Bus Clock	33MHz (Max.)			
User slots	4 (short-size)	7 (Long-size)	13 (Long-size)	
Installable Board (mm)	176.5(L) × 107(H)	313.8(L) × 107(H)		
Power supply capacity (Max.)	+5VDC: 11.3A, +3.3VDC: 6A, +12VDC: 3A, -12VDC: 0.7A		+5VDC: 18A*1, +3.3VDC: 15A*1, +12VDC: 9A, -12VDC: 1A	
AC input voltage	115/230VAC (switch selectable)			
Overall maximum power supply capacity	130W		0~30°C: 230W, 30~40°C: 205W, 40~50°C: 175W	
Operating Conditions	0~50°C, 20~80%RH (no condensation	on)		
Dimensions (mm)	210.0(W) × 235.0(D) × 138.0(H)	300.0(W) × 372.2(D) × 138.0(H)	424.0(W) × 372.2(D) × 156.0(H)	
Weight	3.5kg	5.0kg	9.5kg	
Note:	*1: The sum of +5VDC/+3.3VDC can not ex	ceed 90W. *2: This product cannot be use	d with the [ECH(CB)BE] expansion chassis.	

Dimensions

235.0 ECH(PCI)BE-H4A CONTEC *The figures inside the bracket indicate the dimension with the bracket attached.





news box

CONTEC SOLUTION

Company Profile

Box PCs

Panel PCs

Flat Panel Displays

Silicon Disk Drive

Options

Box PCs & with Windows CE

Analog I/O

Digital I/O

Counters & Motor Controls

Communication

Remote I/O

Software Accessories & Cables

Distributed Monitor &

Control Network: F&eIT Multi-Programmable

Display Remote Monitoring

Solution

Service & Products

M-07

Expansion Chassis

Expansion Adapte Expansion Chassis

PC Card

Media Converter

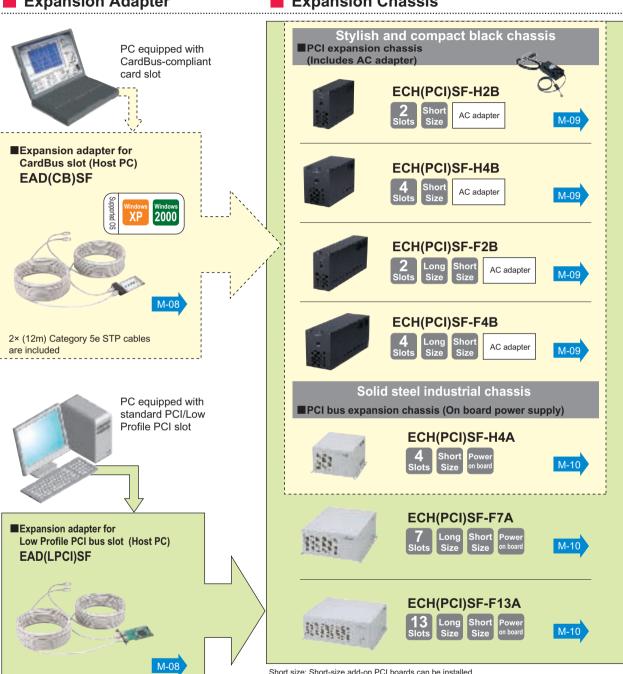
StarFabric-compliant

Selecting an Expansion Adapter and Expansion Chassis

A StarFabric-compliant system is best suited for measurement control when distance between host PC and chassis is required. When using an expansion chassis in close proximity to the host PC, select from the Bus Extension list on M-03 CONTEC offers a total of 12 different combinations according to type of host PC, needed PCI slots and sizes on add-on boards.

Expansion Adapter

Expansion Chassis



Short size: Short-size add-on PCI boards can be installed Long size: Long-size add-on PCI boards can be installed

* Category 5e twisted-pair cable can be used. In high noise environments, shielded cable (STP) is recommended.

Global Portal: www.contec.com

2× (12m) Category 5e STP cables

and standard PCI bus bracket included

StarFabric-compliant LPCI bus slot Expansion Adapter (Host PC) EAD(LPCI)SF



- 12m PCI bus expansion and high-speed serial transfer (2.5Gbps)are supported
- PCI bus-compatible, eliminating any need to change PCI add-on boards or software
- Uses noise resistant Cat 5e STP cable easy wiring and installation
- PCI bus (5V/32bit 33MHz) expansion uses one Low Profile PCI or standard PCI slot of the host PC
- Expansion chassis can be selected to match required number of PCI slots and add-on board size

StarFabric-compliant CardBus slot Expansion Adapter (Host PC) EAD(CB)SF



- 12m PCI bus expansion and high-speed serial transfer (2.5Gbps)are supported
- Uses noise resistant Cat 5e STP cable easy wiring and installation
- PCI expansion (5V/32bit 33MHz) using CardBus slot of the note PC
- Expansion chassis can be selected to match required number of PCI slots and add-on board size
- The expansion chassis power supply can be turned on & off with the host PC power supply



A dedicated device driver needs to be installed under Windows XP and Windows 2000.

news box

CONTEC SOLUTION

Company Profile

Box PCs

Panel PCs

Flat Panel Displays

Silicon Disk Drive

Options

Box PCs & Panel PCs with Windows CE

Analog I/O

Digital I/O

Counters &

Communication

GPIB

Remote I/O

Software

Accessories & Cables

Distributed Monitor & Control Network: F&eIT

Multi-Programmable Display

Remote Monitoring Solution

Service & Products

M-08

Lineup

Expansion Adapte

Expansion Chassis

Expansion Chassis

PC Card

Media Converter

Model	EAD(LPCI)SF	EAD(CB)SF *2	
Bus / Size (mm)	PCI Local Bus Specification Rev2.2 (+5V / +3.3V)/ 121.69(L) × 63.41(H)	PC Card Standard / CardBus- compliant / TYPE II (119.0 × 54.0 × 19.0)	
	3.3VDC 450mA (Max.)		
Power Consumption (Max.)	<jp1 1-2="" short=""> 5VDC 350mA (Max.)</jp1>	3.3VDC 450mA (Max.)	
	<jp1 2-3="" short=""></jp1>		
Operating Conditions	0~50°C, 10~90%RH	0~50°C, 20~90%RH	
	(no condensation)	(no condensation)	
Attached cable *1	2× Category 5e STP cables (12m)		
Note:	*1: Category 5e twisted-pair cable can be used. In noisy environments shielded cable (STP) is recomr *2: This product cannot be used with the expansion chassis [ECH(PCI)SF-F7A, F13A].		

news box

CONTEC SOLUTION

Company

Profile

Box PCs

Panel PCs

Flat Panel Displays

Silicon Disk Drive

Ontions

Box PCs & with Windows CE

Analog I/O Digital I/O

Counters & Motor Controls

Communication

Remote I/O

Software

Accessories & Cables

Distributed Monitor & Control Network: F&eIT

Multi-Programmable

Display Remote Monitoring

Solution

Service & Products

M-09

Expansion Chassis

Expansion Adapte

PC Card

Media Converter

StarFabric-compliant PCI bus Expansion Chassis (×2 Short size slots, AC Adapter) ECH(PCI)SF-H2B





Short

Size

Slots

2× PCI expansion slots

 Length accomodates short-size PCI add-on boards (5V/32bit)

- 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
- Includeing an AC adapter

StarFabric-compliant PCI bus Expansion Chassis (×2 Long size slots, AC Adapter)

ECH(PCI)SF-F2B









- 2× PCI expansion slots
- Length accommodates long-size PCI add-on boards (5V/32bit)
- 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
- Includeing an AC adapter

StarFabric-compliant







Size



StarFabric-compliant

ECH(PCI)SF-H4B

PCI bus Expansion Chassis

(×4 Short size slots, AC Adapter)

- 4× PCI expansion slots
- Length accomodates short-size PCI add-on boards (5V/32bit)
- 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
- Includeing an AC adapter

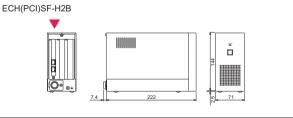
PCI bus Expansion Chassis (×4 Long size slots, AC Adapter) ECH(PCI)SF-F4B

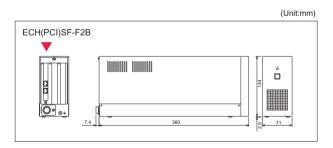


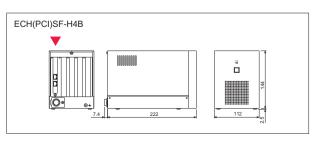
- 4× PCI expansion slots
- Length accomodates long-size PCI add-on boards (5V/32bit)
- Chassis power supply can be turned on & off with the host PC power supply
- Equipped with a built-in cooling fan
- The compact chassis design combines space-saving system configuration with portability
- Includeing an AC adapter

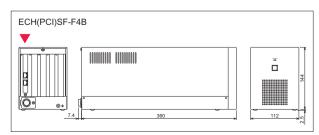
Model	ECH(PCI)SF-H2B	ECH(PCI)SF-H4B	ECH(PCI)SF-F2B	ECH(PCI)SF-F4B		
Bus type	PCI Local Bus Specification Rev2.2	(+5VDC)				
Address Space	Memory: 32-bit addressing, I/O: 32-b	oit addressing				
Interrupt Level	INTA-INTD					
Bus Clock	33MHz (Max.)					
User slots	2 (Short-size)	4 (Short-size)	2 (Long-size)	4 (Long-size)		
Installable Board (mm)	176.5(L) × 107(H)		313.8(L) × 107(H)			
Power supply capacity (Max.)	The output current shall not exceed the following values.					
rower supply capacity (Max.)	+5VDC: 7A, +3.3VDC: 3A, +12VDC:	1.5A, -12VDC: 0.3A				
AC input voltage	100 to 240VAC					
Overall maximum power supply capacity	60W					
Operating Conditions	0~50°C, 20~80%RH (no condensation	on)				
Dimensions (mm)	71.0(W) × 222.0(D) × 144.0(H)	112.0(W) × 222.0(D) × 144.0(H)	71.0(W) × 360.0(D) × 144.0(H)	112.0(W) × 360.0(D) × 144.0(H)		
Weight of Chassis	1.2kg	1.5kg	1.6kg	2.0kg		
Weight of AC Adapter	0.9kg					
Note:						

■ Dimensions ECH(PCI)SF-H2B









StarFabric-compliant PCI bus Expansion Chassis (×4 Short size slots, On board Power) ECH(PCI)SF-H4A



- 4× PCI expansion slots
- Length accomodates short-size PCI add-on boards (5V/32bit)

Slots

Short

Size

On board

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

StarFabric-compliant PCI bus Expansion Chassis (×7 Long size slots, On-board Power)



7× PCI expansion slots

add-on boards (5V/32bit)

Length accomodates long-size PCI

 Chassis power supply can be turned on & off with the host PC power supply







CONTEC SOLUTION

Company Profile

Box PCs

Panel PCs

Flat Panel Displays Silicon Disk Drive

Options

Box PCs & Panel PCs with Windows CE

Analog I/O

Digital I/O

Counters &

Communication

GPIB

Remote I/O

Software

Accessories & Cables

Distributed Monitor & Control Network: F&eIT

Multi-Programmable Display

Remote Monitoring

Solution

Service & Products

M-10

Lineun

(Unit:mm)

Expansion Chassis

Expansion Adapte sion Chass

PC Card

Media Converter

ECH(PCI)SF-F7A

StarFabric-compliant PCI bus Expansion Chassis (×13 Long size slots, On-board Power)









ECH(PCI)SF-F13A

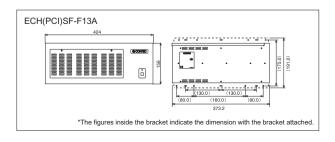


- 13× PCI expansion slots
- Length accomodates long-size PCI add-on boards (5V/32bit)
- Chassis power supply can be turned on & off with the host PC power supply

Model	ECH(PCI)SF-H4A	ECH(PCI)SF-F7A *2	ECH(PCI)SF-F13A *2		
Bus type	PCI Local Bus Specification Rev2.2	Local Bus Specification Rev2.2 (+5VDC)			
Address Space	Memory: 32-bit addressing, I/O: 32-bit addressing				
Interrupt Level	INTA-INTD				
Bus Clock	33MHz (Max.)				
User slots	4 (short-size)	7 (Long-size)	13 (Long-size)		
Installable Board (mm)	176.5(L) × 107(H)	313.8(L) × 107(H)			
Power supply capacity (Max.)	+5VDC: 11.3A, +3.3VDC: 6A,		+5VDC: 18A*1, +3.3VDC: 15A*1,		
	+12VDC: 3A, -12VDC: 0.7A		+12VDC: 9A, -12VDC: 1A		
AC input voltage	115/230VAC (switch selectable)				
Overall maximum power	130W		0~30°C: 230W, 30~40°C: 205W,		
supply capacity	13000		40~50°C: 175W		
Operating Conditions	0~50°C, 20~80%RH (no condensation	on)			
Dimensions (mm)	310 0(M) × 335 0(D) × 138 0(H)	300 0/M/\ × 373 3/D\ × 138 0/H\	424 0(M) × 272 2(D) × 156 0(H)		
Dimensions (mm)	210.0(W) × 235.0(D) × 138.0(H)	300.0(W) × 372.2(D) × 138.0(H)	424.0(W) × 372.2(D) × 156.0(H)		
Weight	3.5kg	5.0kg	9.5kg		
Note:	*1: The sum of +5VDC/+3.3VDC can not exceed 90W. *2: This product cannot be used with the ECH(CB)BE expansion chassis.				

Dimensions

ECH(PCI)SF-H4A CONTEC 2222 (140.0) *The figures inside the bracket indicate the dimension with the bracket attached. ECH(PCI)SF-F7A 0 *The figures inside the bracket indicate the dimension with the bracket attached



news box

CONTEC

SOLUTION

Company Profile

Box PCs

Panel PCs

Flat Panel Displays

Silicon Disk Drive

OIIIOON DION DIIVO

Options

Box PCs & Panel PCs with Windows CE

Analog I/O

Digital I/O

Counters & Motor Controls

Communication

GPIB

Remote I/O

Bus Expansion System

Software

Accessories & Cables

Distributed Monitor & Control Network: F&eIT

Multi-Programmable Display

Remote Monitoring Solution

Service & Products

M-11

Linoun

Bus Extension Typ

Expansion Adapter

Expansion Chassis

compliant Typ

Expansion Chassis

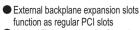
Ехраною топа

PC Card

Media Converter

ISA

PCI to PCI Bus Expansion System (4 Slots) **BUF(PCI)4**



- 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.

PCI to PCI Bus Expansion System (7 Slots) **BUF(PCI)**





- External backplane expansion slots function as regular PCI slots
- 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.

PCI to PCI Bus Expansion System (13 Slots) **BUF(PCI)13**



PCI to ISA Bus Conversion System BUF-PCI(PC)





- External backplane expansion slots function as regular PCI slots
- 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.



- Standard ISA slots can be connected from a PCI slot of host PC.
- Included driver software for Windows XP/2000/NT/Me/98/95.
- I/O access wait and refresh signal for the expansion unit.

Model	BUF(PCI)4	BUF(PCI)	BUF(PCI)13	BUF-PCI(PC) *2		
Bus type	32-bit PCI bus Rev2.1 (+5V type)	PCI to ISA Expansion				
Address space	I/O: 32-bit addressing, Memory: 32-	-				
User slots	4	7	13	-		
Interrupt Level	INTA-INTD	One interrupt signal within expansion chass				
DMA	-	Not supported				
Accessible I/O space	-	Max.248 port (PC BIOS assigns I/0 space to BUF-PC(PCI))				
Accessible Memory	-	Not supported				
Bus Clock	33MHz (Max.)	-				
Power Consumption (Max.)	BUS-PC(PCI) (PC side): +5VDC 700mA (Max.) / +5VDC 300mA (typ) BUS-PAC(PCI) (Extension side: +5VDC 700mA(Max.) / +5VDC 500mA (typ)		BUS-PC(PCI) (PC side): +5VDC 700mA (Max.) / +5VDC 300mA (typ) BUS-PAC(PCI) (Extension side): +5VDC 1500mA (Max.) / +5VDC 900mA (typ)	BUS-PCI(PCI) (PC side): +5VDC 300mA (Max.) BUS-PCI(PC) (Extension side):) +5VDC 300mA (Max.)		
Operating Conditions	0~50°C, 30~90%RH(no condensation)			0~50°C, 10~90%RH (no condensation)		
Dimensions (mm)	BUS-PC(PCI) (PC side): 122.0(L) × 107.0(H) × 18.5(D) BUS-PAC(PCI) (Extension side): 122.0(L) × 107.0(H) × 18.5(D) PC-MB5(PC) (Back plane): 165.0(L) × 124.0(H) × 20.0(D)	BUS-PC(PCI) (PC side): 122.0(L) × 107.0(H) × 18.5(D) BUS-PAC(PCI) (Extension side): 122.0(L) × 107.0(H) × 18.5(D) PC-MB8(PCI) (Back plane): 220.0(L) × 185.0(H) × 20.0(D)	BUS-PC(PCI) (PC side): 122.0(L) × 107.0(H) × 18.5(D) BUS-PAC(PCI) (Extension side): 122.0(L) × 107.0(H) × 18.5(D) PC-MB8(PCI) (Back plane): 311.5.0(L) × 185.0(H) × 20.0(D)	BUS-PC(PCI) (PC side): 120.0(L) × 107.0(H) × 18.5(D) BUS-PAC(PCI) (Extension side): 134.2(L) × 107.0(H) × 18.5(D)		
Attached cable	96-pin shielded cable, 1m *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 contact General Information for details.					

Standard ISA slots can be connected

from a ISA slot of host PC.

PCMCIA to ISA Bus Conversion System **BUF-CARD(PC)P**



ISA to ISA Bus **Expansion System BUF(PC)E**



news box

CONTEC SOLUTION

Company Profile

Box PCs

Panel PCs

Flat Panel Displays

Silicon Disk Drive

Ontions

Box PCs & with Windows CE

Analog I/O

Digital I/O

Counters &

Communication

Software

Accessories & Cables

Distributed Monitor & Control Network: F&eIT

Display

Solution

Media Converter

GPIB

Remote I/O

Multi-Programmable

Remote Monitoring

Service & Products

M-12

Expansion Chassis

Expansion Adapte sion Chass

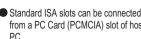
PC Card



 Standard ISA slots can be connected from a PC Card (PCMCIA) slot of host

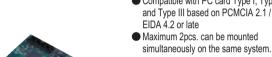


Supported OS: Windows XP/2000/98/ 95/3.1. MS-DOS





ISA to PCMCIA **Expansion Board** PC-CARD(PC)H





 Compatible with PC card Type I, Type II, and Type III based on PCMCIA 2.1 / J

Maximum 2pcs. can be mounted