

DATENBLATT

EAD-SF-LPE

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StarFabric conformity PCI Bus Expansion Adapter for Low Profile PCI Express PC-Slot

EAD-SF-LPE



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

Features

A PCI slot (5V/32bit 33MHz) can be added if the PCI Express slot on the main unit of a PC is used to connect an optional PCI bus expansion chassis.

No special device driver is required for the PCI board mounted on the PCI bus expansion chassis.

A noise-resistant STP category 5e cable (12m) comes as standard.

The PCI bus expansion chassis can be installed up to 12 meters away from the PC's main unit.

A high-speed serial transmission PCI bridge [StarFabric] has been introduced.

A 5Gbps full-duplex link (transmission: 2.5Gbps, reception: 2.5Gbps)*1 is used for high-speed communication of PCI bus signals.

Only two LAN cables are required to link the PC to the power-ON/OFF functionality.

A suitable PCI bus expansion chassis can be selected, according to the number of slots and board size required.

Support for both of Low Profile and standard size slots (interchangeable with a bundled bracket).

*1 The numerical values displayed are theoretical maximum values; therefore these values do not represent the actual data transfer speeds.

This product is a bus adapter set that is designed to connect a PCI bus expansion chassis [ECH(PCI)SF series] to a PCI Express slot of a PC. Adopting a high-speed serial communication PCI bridge [StarFabric], the product can be used to install the PCI bus expansion chassis up to 12 meters away from the PC's main unit using LAN cables to allow you to use a PCI board. The product supports both the Low Profile and standard size slots.

Specification

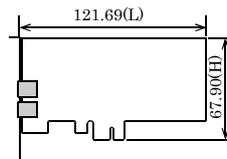
Specification

Item	Specification
Compatible bus	PCI Express Base Specification Rev. 1.0a x1
Outside dimensions (mm)	121.69(L) x 67.90(H)
Power consumption (Max.)	3.3VDC 600mA
Usable condition	0 - 50°C, 10 - 90%RH (No condensation)
Weight	50g

Specification of the bundled cable

Item	Specification
Bundled connection cable	STP-category, 5e straight cables 12m x 2 cables
Weight	400g / cable

Board Dimensions



The standard outside dimension(L) is the distance from the end of the board to the outer surface of the slot cover.

Supported OS

- Windows XP Professional
- Windows XP Home Edition
- Windows Server 2003
- Windows 2000 Professional

Expansion chassis (Option)

PCI Bus Expansion Chassis

PCI Bus Expansion Chassis (Short x 2Slots) : ECH(PCI)SF-H2B

PCI Bus Expansion Chassis (Long x 2Slots) : ECH(PCI)SF-F2B

PCI Bus Expansion Chassis (Short x 4Slots) : ECH(PCI)SF-H4B

PCI Bus Expansion Chassis (Long x 4Slots) : ECH(PCI)SF-F4B

PCI Bus Expansion Chassis (Short x 4Slots) : ECH(PCI)SF-H4A

PCI Bus Expansion Chassis (Short x 7Slots) : ECH(PCI)SF-H7A

PCI Bus Expansion Chassis (Long x 7Slots) : ECH(PCI)SF-F7A

PCI Bus Expansion Chassis (Short x 13Slots)
: CH(PCI)SF-H13A

PCI Bus Expansion Chassis (Long x 13Slots)
: ECH(PCI)SF-F13A

Check the CONTEC's Web site for more information on these expansion chassis.

Connection cable (Option)

Connection cables (12-meter, STP-category, 5e straight cables) are bundled with this product. The following options can also be available:

UTP-category, 5e straight cables (3m): TP-03 *1*2

UTP-category, 5e straight cables (5m): TP-05 *1*2

UTP-category, 5e straight cables (10m): TP-10 *1*2

*1 A pair of cables are required for connection.

*2 When used in an environment susceptible to extraneous noise, UTP cables may cause link connection. It is therefore recommended to use either the standard or commercial STP cables.

Packing List

Expansion adapter board [BUS-AD1S-LPE] ...1

Connection cable [STP-category, 5e straight cables (12m)] ...2

User's Manual (this booklet) ...1

Standard size bracket ...1

Combinations of Expansion Adapters and Expansion Chassis

The expansion adapters and expansion chassis can be used in the following combinations:

Expansion adapter	Expansion chassis ECH(PCI)SF								
	-H2B	-F2B	-H4B	-F4B	-H4A	-H7A	-F7A	-H13A	-F13A
EAD(CB)SF	o	o	o	o	o	x	x	x	x
EAD(LPCI)SF	o	o	o	o	o	o	o	o	o
EAD-SF-LPE	o	o	o	o	o	o	o	o	o

Notes: May not operate correctly depending on the expansion adapter/expansion chassis and board/PC combination.

Restrictions

This product has restrictions on the types of PCs and boards that can be used.

Be sure to check the following restrictions before use.

We encourage you to take advantage of the product loan service to confirm operation before purchasing.

< Restrictions of PC >

This product uses the switch fabric to extend the bus.

The PCI boards plugged in PCI slots in this product are recognized if the switch fabric is recognized as the PCI-to-PCI bridge by the BIOS in the PC used. Ask the PC vendor for whether the BIOS recognizes the PCI-to-PCI bridge.

< Restrictions on transfer rate >

When the expansion chassis accommodates a board that performs high-speed transfer such as bus mastering, the overall transfer rate may be lower than that of PCI bus slots in the main unit of a desktop PC.

This is caused by bus extension by the PCI-to-PCI Bridge.

The transfer rate may vary with the system configuration and the type of the PC.

< Restrictions of PCI board >

None of the following types of boards can be used in any expansion slot in the expansion chassis.

Video display board (VGA board)

Board to connect a PCI bus expansion unit

Board explicitly stated not to be used with the PCI-to-PCI Bridge

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