Vector Drives for Desktop PCs

PCMCIA, CardBus, ExpressCard Drives for PCI/PCIe bus

With the Vector Drives the following PC card formats respectively standards can be operated in a desktop PC or server:

> PCMCIA
> CardBus
> ExpressCard

The drives need a free PCI or PCIe slot. The PCMCIA Drive and the ExpressCard Drive require additionally a free 3.5'' drive slot in the PC housing.

Features and Advantages

The Vector PCMCIA and CardBus Drive include the PCI CardBus controller chip 1420. This enables either the simultaneous operation of two 8 or 16 bit compatible PCMCIA cards of type I or type II or the operation of one PCMCIA card of type III. 32 bit CardBus cards are only supported by the Vector CardBus Drive.

The Vector ExpressCard drive supports data transfer rates of up to 5 Gbit/s. With this drive it is possible to operate cards according to ExpressCard standard with 34 mm and 54 mm size. Dependent on the desktop PC the drive supports the Hot Swap functionality. The drive needs no additional driver.

Combining Vector software tools, PC cards (e.g. CANcardXL), the Vector Drives, and a desktop PC, the user gets a professional system for measurement, analysis, and emulation.

Functions

Vector PCMCIA respectively CardBus Drive:

The drives include two independent PCMCIA slots.

Supported PC cards:

> Slot 1: type I, II, III
> Slot 2: type I, II

As the slots have voltage identification, the PCMCIA cards can be used with a supply voltage of 3.3 V as well as 5 V. The PCI plug-in card is compatible with PCI 2.2.

Vector ExpressCard Drive:

The drive includes one ExpressCard slot.

Supported PC cards:

> ExpressCard/34 and ExpressCard/54
> PCIe ExpressCard or USB2.0 ExpressCard

Application Areas

> **PCMCIA Drive:** IO PC cards, that need interrupts (e.g. CANcardXL)
> **CardBus Drive:** 32 bit CardBus PC cards (e.g. FlexCard)
> **ExpressCard Drive:** USB2.0 ExpressCard and PCIe ExpressCard PC cards (e.g.CANcardXLe)

Included with Delivery

> PCI/PCIe PC board and PC card drive
> Connection cable and installation guide

PCMCIA Drive

CardBus Drive

ExpressCard Drive

V2.0 2008-06

Technical Data	Vector ExpressCard Drive*	Vector PCMCIA Drive	Vector CardBus Drive
Application area	Desktop PCs and server	Desktop PCs and server	Desktop PCs and server
Card insertion	PC front side	PC front side	PC back side
Number of PC card slots	1 x ExpressCard 34 mm or 54 mm	2 x type I resp. II or 1 x type III PC card	2 x type I resp. II or 1 x type III PC card
Interface to the PC card	ExpressCard	8/16 bit PCMCIA PC cards (no CardBus cards)	8/16/32 bit PCMCIA-/CardBus PC cards
Voltage supply		3.3 V and 5 V on demand of the PCMCIA card	3,3 V and 5 V on demand of the PCMCIA card
Max. current per slot		1 A; with slot control	1 A; with slot control
Interface to the PC	PCIe (Rev 2.0), USB 2.0 transfer rate: PCI Express: 2.5 Gbit/sec (5 Gbit/sec) USB: 480 Mbit/sec	PCI 2.2 compatible	PCI 2.2 compatible PC 99 compatible
Operating systems	Windows 2000 SP4, XP, Vista	Windows 2000 SP4, XP, Vista	Windows 2000 SP4, XP, Vista
Environment conditions			
Operating temperature	0..+60 °C	0..+60 °C	0..+60 °C
Storage temperature	-20..+80 °C	-20..+80 °C	-20..+80 °C
Humidity	0..90% (not condensing)	0..90% (not condensing)	0..90% (not condensing)
Hardware requirements	IBM-compatible PC Pentium processor or better Memory of at least 256 MB Free PCIe slot x 1 slot USB connector on motherboard Free 3.5'' installation slot	IBM-compatible PC Pentium processor or better Memory of at least 256 MB Free PCI slot Free 3.5'' installation slot	IBM-compatible PC Pentium processor or better Memory of at least 64 MB Free PCI slot

* - Please see also the application note
AN-INI-1-004_ExpressCard_Hot-Plug
at www.vector-worldwide.com