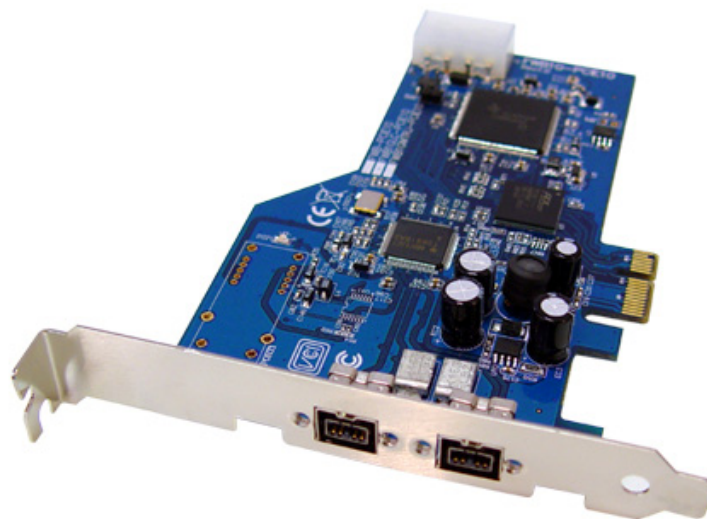




FWB-PCIE10



Your industrial 1394b card with PCI Express.

IOI's PCI Express adapter with two 1394 bilingual connectors with screw locking offers users the ability to connect AVT's high end cameras, especially of the PIKE family, to their PC in a very simple way. PCI Express bandwidth of up to 250 MByte/s¹ ensures low latency transmission of the up to 64 MByte/s of video data at full speed from AVT's PIKE camera. Marlin, Dolphin, Guppy and Oscar cameras can also be connected by the use of legacy cables.

¹ Practical bandwidth is lower and dependent on individual systems/software conditions. Mega = 1.000.000

Highlights

- Up to 64 MByte/s bus video bandwidth
- Compliant with IEEE 1394b (2002)
- Backward compatible with IEEE 1394a (2000)
- Easy plug & play, no driver required
- Compatible with AVT Pike camera
- Compatible with all AVT 1394a cameras by the use of legacy cables
- Compatible with
 - AVT FirePackage
 - AVT Fire4Linux (on request)
 - AVT Direct FirePackage (on request)
- Power in connector to supply power
- Screw locking for 1394b ports

Technical Specifications

Feature	Description
Adapter type	Two port 1394b PCI Express card
PCI Express chipset	PLX Technologies: PEX8111-BB66BC
1394 chipset	TI TSB82AA2 (link); TI TSB81BA3D (phy)
Interface	PCI Express, 1 lane
Ports	2x 1394 bilingual ² , screw locking ³ , supplying bus power (max. 1500 mA) per port
Speed	100, 200, 400, 800 Mbit/s transfer rate
Bandwidth	100/80/64 MByte/s at 800 Mbit/s (gross/net/video)
# cameras (DMA's)	Up to 4 (external repeater for more than 3 required)
OS Support	Windows NT4.0, 2000 (FP only); XP, 2003 ⁴ , Linux 2.4.x/2.6.x ⁵
Compliance	FCC, CE, RoHS Directive (2002/95/EC), WEEE Directive (2002/96/EC)
Power	12 V – 32 V DC, supplying bus power, max. 1500 mA
Operating temp.	+5°C... 50°C
Dimensions	135 mm x 120 mm
Weight	75 g
External power in	13 V – 32 V DC ⁶ (big IDE 4-pin cable adapter included ⁷)
Compatibility	AVT FirePackage (FP), AVT Direct FirePackage (DFP), AVT Fire4Linux (on request)
Options: cables	copper cables various lengths, with or without screw locking at both sides, sold separately

Ordering information:

FWB-PCIE10	2x 1394b to PCI-Express Host Adapter, industrial	K0000346
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Cable options:

Cable 0.5 m 9-pin - 9-pin industrial	IEEE 1394b; 2x screw lock, 0.5 m, black, 2x ferrite	K1200201
Cable 5.0 m 9-pin - 9-pin, industrial	IEEE 1394b; 2x screw lock, 5.0 m, black, 2x ferrite	K1200133
Cable 7.5 m 9-pin - 9-pin, industrial	IEEE 1394b; 2x screw lock, 7.5 m, black, 2x ferrite	K1200134

Notes:

Different locking cables available upon request.

² Bilingual ports can either operate in 1394b or 1394a, depending on the device (cable) attached.

³ Screw locking: Do not apply excessive force in order not to damage port or threads. There remains a gap between the connector and the plug.

⁴ DFP may require exchange of MS-driver, depending on service pack.

⁵ On request: Contact your local support.

⁶ Ext. voltage must exceed internal PCI Express voltage by ≥ 0.5 V.

If you want to power the card via external connection exclusively, removal of diode D1 is recommended.

⁷ External power is required, when connecting more than one Pike per card.