



1394

FWB-PCI02



Industrial 1394b adapter for the PCI bus.

IOI's FWB-PCI02 adapter offers users the ability to securely connect AVT's high end cameras, especially of the PIKE family, into their PC in a very simple way. PCI 32/64 Bit theoretical bandwidth¹ of up to 132/264 MByte/s ensures low latency transmission of up to 64 MByte/s of video data at full speed from AVT's Guppy PRO, Stingray or Pike cameras. Two 1394 bilingual connectors with screw locking allow the direct connection of two 1394b cameras. 1394a devices such as AVT's Marlin, Guppy or Oscar family of cameras can be connected as well due to legacy cables converting from 9-pin to 6-pin connectors. This makes this two port interface adapter ideal for multi camera applications with today's PCI-expansion-slot PCs.

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

Highlights

- Fully compliant with PCI 2.x at 3.3 V and 5 V signalling environment
- Supports 33 MHz 32/64 bit specification
- Up to 132/264 MByte/s transfer bandwidth
- Up to four cameras (DMA's) parallel acquisition (bandwidth sharing)
- Compliant with IEEE 1394b (2002) and backward compatible with IEEE1394a (2000)
- 1394b data transfer rate up to 800 Mbps
- Easy plug & play
- Supports Windows and Linux
- Compatible with all AVT 1394b cameras
- Backward compatible with all AVT 1394a cameras
- Compatible with all AVT Software Packages²
- Additional power in connector to supply extra power for multi camera applications

² For details refer to the corresponding releases

Technical Specifications

Feature	Description
Adapter type	1394b PCI Card
1394 chipset	TI TSB82AA2 (link); TI TSB81BA3 (phy)
Ports	2x 1394 bilingual ³ , screw locking ⁴ , supplying bus power (max. 1500 mA) per port;
Speed	100, 200, 400, 800 Mbps transfer rate
Bandwidth	100/80/64 MByte/s at 800 Mbps (gross/net/video)
# cameras (DMA's)	up to 4 (External repeater for more than 3 required)
OS Support	Windows XP, 2003 ⁵ , 7; Linux 2.4.x/2.6.x ⁶
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	165 mm x 120 mm
Mass	80 g
External power in	13 V - 32 V DC (big IDE 4-pin cable adapter included) ⁷
Options: Cables	GOF cables, various lengths and grades; copper cables various lengths, with or without screw locking at both sides, sold separately

Ordering information:

PCI Adapter 1394b	2-port OHCI IEEE-1394b to PCI Host Adapter, industrial	K0000347
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Cable options:

Cable 0.5 m 9-pin - 9-pin, industrial	IEEE 1394b; 2x screw lock, 0.5 m, black	K1200306
Cable 5.0 m 9-pin - 9-pin, industrial	IEEE 1394b; 2x screw lock, 5.0 m, black	K1200169
Cable 7.5 m 9-pin - 9 pin, industrial	IEEE 1394b; 2x screw lock, 7.5 m, black	K1200308
Cable 0.5 m 9-pin - 6-pin, industrial	IEEE 1394b/a; 9-pin (screw lock)/6-pin (latch), 0.5 m	K1200198
Cable 4.5 m 9-pin - 6-pin, industrial	IEEE 1394b/a; 9-pin (screw lock)/6-pin (latch), 4.5 m	K1200171

Notes:

Different cables available upon request.

³ Bilingual ports can either operate in 1394b or 1394a, depending on the device (cable) attached.

⁴ 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.

⁵ DFP may require exchange of MS-driver, depending on service pack.

⁶ On request: Contact your local support.

⁷ External power is required, when connecting more than one 1394b camera per card.