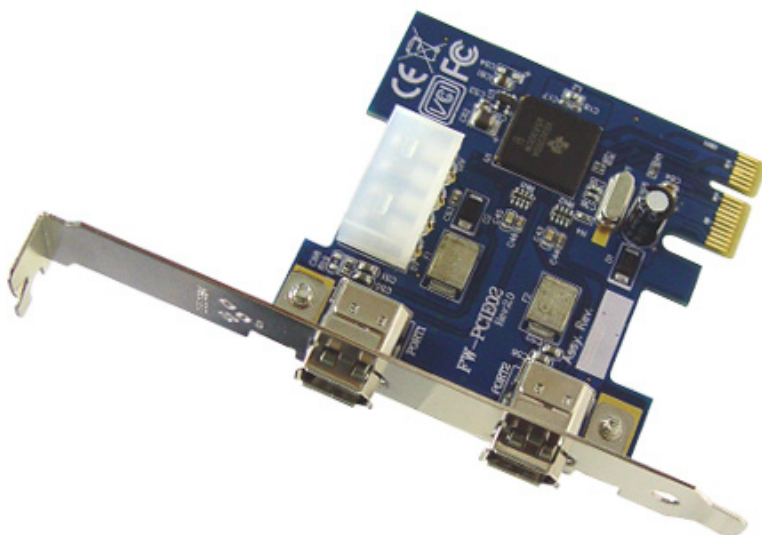




FW-PCIE02



Your 1394a adapter for the PCI Express bus.

IOI FW-PCIE02 PCI Express adapter offers users the ability to connect AVT's broad 1394a camera range into their PC in a very simple way. PCI Express bandwidth of up to 250 MByte/s¹ ensures low latency transmission of the up to 32 MByte/s of video data at full speed from AVT's camera range. Two 1394a external connectors for the direct connection of AVT's Marlin, Dolphin, Guppy or Oscar cameras make this universal interface card ideal for most modern PC's. It also offers the possibility to use interlock cable.

Highlights

- Fully compliant with PCI Express
- Supports one-lane 2.5 Gbit/s PCI Express specification
- 250 MByte/s PCI express transfer bandwidth
- Up to four cameras (DMA's) parallel acquisition (bandwidth sharing)
- Compliant with IEEE 1394a (2000)
- 1394a data transfer rate up to 400 Mbit/s
- Easy plug & play
- Supports Windows and Linux
- Compatible with AVT's 1394a camera families
- No extra driver needed for
 - AVT FirePackage
 - AVT Fire4Linux (on request)
 - AVT Direct FirePackage
- Additional power in connector to supply extra power for multi camera applications

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

Technical Specifications

Feature	Description
Adapter type	1394a PCI Express card
PCI Express chipset	TI XIO2200
1394 chipset	integrated in TI XIO2200
Interface	PCI Express, 1 lane
Ports	2x 1394a, supplying bus power (max. 1500 mA) per port, but not more than 1500 mA in total
Speed	100, 200, 400 Mbit/s transfer rate
Bandwidth	50/40/32 MByte/s at 400 Mbit/s (gross/net/video)
# cameras (DMA's)	up to 4 (External repeater for more than 2 required)
OS support	Windows NT4.0, 2000 (FP only); XP, 2003, Linux 2.4.x/2.6.x ²
Compliance	FCC, CE, RoHS Directive (2002/95/EC), WEEE Directive (2002/96/EC)
Power	12 V – 36V DC, supplying bus power, max. 1500 mA
Operating temp.	+5°C... 55°C
Dimensions	120 mm x 75 mm (slot)
Mass	65 g
External power in	13 V ³ – 36 V DC
Compatibility	AVT FirePackage (FP), AVT Direct FirePackage (DFP), AVT Fire4Linux (on request)
Options: cables	various lengths, with or without screw locking at camera side, sold separately

Ordering information:

PCI Express, Adapter 1394a	PCI Express, 2x 1394a (2 extern); IOI FW-PCIE02	K0000360
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Cable options:

Cable -2x Interlock	IEEE1394a; (2x Interlock)	4.5 m, for Marlin / Oscar / Guppy	K1200064
Cable -2x Interlock	IEEE1394a; (2x Interlock)	10 m, for Marlin / Oscar / Guppy	K1200163
Cable -2x Interlock	IEEE1394a; (2x Interlock)	12.5 m, for Marlin / Oscar / Guppy	K1200165
Cable -2x Interlock	IEEE1394a; (2x Interlock)	17.5 m, for Marlin / Oscar / Guppy	K1200162

Notes:

More cable options are available in the price list and on request.

Molex clamp locking is suitable for AVT Marlin, Guppy and Oscar.

Please consult AVT or your local dealer if you require locking connector for Dolphin or third party cameras.

² On request: Contact your local support.

³ Ext. voltage must exceed internal PCI Express voltage by $\geq 0,5$ V.

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