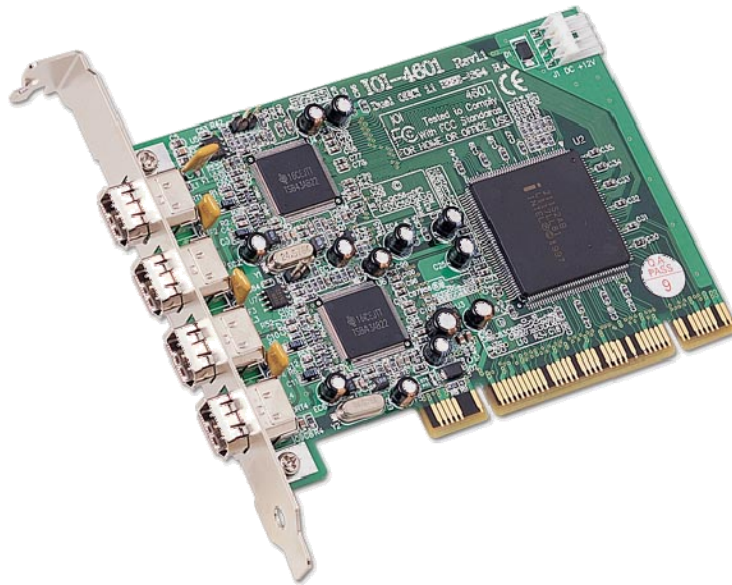



**1394**
**4601-22**

  
 Compliance

## Your quad port dual 1394a adapter for the PCI bus.

IOI's quad port dual 1394a adapter offers users the ability to directly connect up to four cameras of the AVT's long range of 1394a cameras such as Marlin, Dolphin, Guppy and Oscar to their PC in a very simple way. PCI 32 Bit theoretical bandwidth<sup>1</sup> of up to 132 MByte/s ensures low latency transmission of up to  $2 \times 32 = 64$  MByte/s of video data at full speed from multiple cameras. Two 1394a connectors per bus allow the direct connection of up to four 1394a cameras to this adapter. This makes this universal interface card ideal for high speed multi camera applications with today's PC's.

<sup>1</sup> Practical bandwidth is lower and dependent on individual systems/software conditions

### Highlights

- Fully compliant with PCI 2.x at 3.3 V and 5 V signalling environment
- Supports 33 MHz 32 bit specification
- Up to 132 MByte/s PCI transfer bandwidth
- Up to 64 MByte/s 1394a video bus bandwidth
- Two separate 1394a buses on one adapter
- Two ports per bus
- Up to eight 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 all AVT 1394a cameras
- Upwards compatible with AVT PIKE camera (@ 400 Mbit/s)
- Compatible with
  - AVT FirePackage
  - AVT Fire4Linux (on request)
  - AVT Direct FirePackage
- Additional power in connector to supply extra power for multi camera applications

## Technical Specifications

Feature	Description
Adapter type	Dual 1394a PCI
1394 chipset	2x Ti TSB43AB21 (Integrated link/phy)
Interface	PCI 2.x
# buses	2x 1394a bus
Ports	4x 1394a, supplying bus power (max. 1350 mA), 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) per bus
# cameras (DMA's)	up to 8 (External repeater for more than 4 cameras required)
OS Support	Windows NT4.0, 2000, XP, 2003, Linux 2.4.x/2.6.x
Compliance	<b>FCC, CE</b>
Power	12 V – 36 V DC, supplying bus power up to 1500 mA max.
Dimensions	120 mm x 120 mm
Mass	80 g
External power in	13 V – 36 V DC (cable adapter included)
Operating temp.	+5°C ... +50°C
Compatibility	AVT FirePackage, AVT Direct FirePackage, AVT Fire4Linux (on request)
Options: cables	various lengths, with or without locking on either side, sold separately

Ordering information:

Dual OHCI Quad Adapter IOI-4601-22	PCI, 2 OHCI IEEE1394-buses, 4 connectors	K0000207
------------------------------------	--	----------

Cable options:

Cable -1x Interlock	IEEE1394a; (1x Interlock) 3.0 m, for Marlin / Oscar / Guppy	K1200167
Cable -1x Interlock	IEEE1394a; (1x Interlock) 4.5 m, for Marlin / Oscar / Guppy	K1200091
Cable -1x Interlock	IEEE1394a; (1x Interlock) 6.0 m, for Marlin / Oscar / Guppy	K1200160
Cable -1x Interlock	IEEE1394a; (1x Interlock) 7,5 m, for Marlin / Oscar / Guppy	K1200212
Cable -1x Interlock	IEEE1394a; (1x Interlock) 10 m, for Marlin / Oscar / Guppy	K1200159

Notes:

Cable locking at card side is not possible due to narrow spacing of ports.

Molex clamp locking (aka Interlock) is suitable for AVT Marlin, Guppy, Oscar.

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