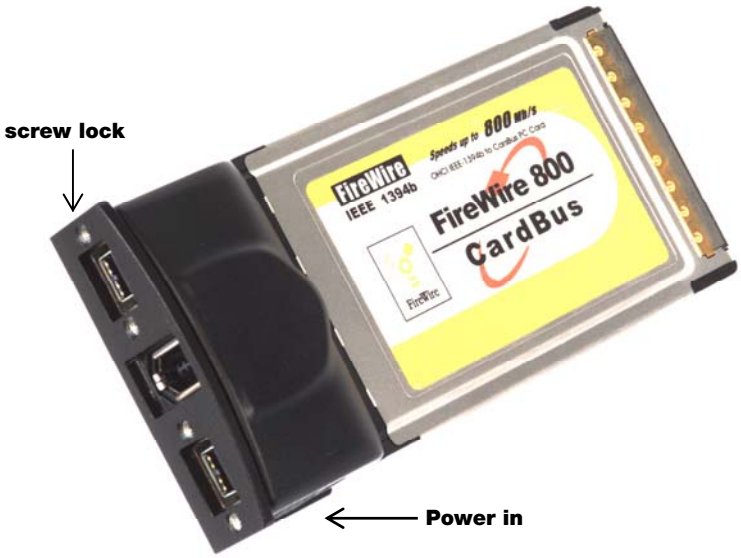
1394

FWB-CB01i



RoHS Compliance

The universal 1394a/b industrial CardBus adapter for your laptop.

IOI's FWB-CB01i CardBus adapter offers users the universal ability to connect AVT's high end cameras especially of the Stingray and Pike families into their laptop in a very easy way. 32 Bit CardBus theoretical bandwidth[1] of up to 132 MByte/s ensures low latency transmission of up to 64 MByte/s of video data at full speed from AVT 1394b cameras. Two 1394 bilingual connectors allow for the direct connection of two 1394b cameras. Furthermore it provides the option to use industrial screw locking cables. 1394a devices such as AVT's Marlin, Dolphin, Guppy or Oscar family of cameras can be directly connected as well due to presence of one 6-pin port or with legacy cables with 9-pin to 6-pin converting connectors. This makes this universal CardBus adapter ideal for applications with laptops.

Highlights

- Connection of industrial screw locking cables possible (obtainable at AVT)
- 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 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 Packages[2]
- Power in connector to directly supply power to the 1394b bus

[1] Practical bandwidth is lower and dependent on individual systems/software conditions

[2] For details refer to the corresponding releases

ALLIED VISION TECHNOLOGIES GMBH
Taschenweg 2a | D-07646 Stadtroda | Germany
Phone: +49 36428/677-0 | Fax: +49 36428/677-24
www.alliedvisiontec.com | info@alliedvisiontec.com

ALLIED Vision Technologies

Technical Specifications

Feature	Description
Adapter type	1394a/b Type II 32 bit CardBus
1394 chipset	TI TSB82AA2 (link) TI TSB81BA3 (phy)
Interface	PCI 2.x
Ports	2x 1394b industrial, 1x 1394a, supplying up to 1500 mA bus power when externally powered
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 NT4.0, 2000, XP, 2003, Linux 2.4.x/2.6.x (on request)
Compliance	**FCC, CE**
Dimensions	55 mm x 121 mm
Mass	60 g
External power in	12 V – 30 V DC (Walkman-type 1.38 mm DC power jack (+) at pin)
Operating temp.	+5°C ... 50°C
Compatibility	AVT FirePackage, AVT Direct FirePackage, AVT Fire4Linux (on request)
Options: cables	various lengths, with or without screw locking on either side, sold separately

Ordering information:

PCMCIA Triple Adapter 1394a/b screw lock	PCMCIA 1394b, 1x 6-pin , 2x 9-pin (screw lock) connector, power supply (12 V, 1.25 A)	E3000104

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
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:
Screw locking at CardBus adapter side only possible for 9-pin connector.
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.

ALLIED VISION TECHNOLOGIES GMBH
Taschenweg 2a | D-07646 Stadtroda | Germany
Phone: +49 36428/677-0 | Fax: +49 36428/677-24
www.alliedvisiontec.com | info@alliedvisiontec.com

Design and specification of the described product(s) are subject to change without notice.

© 03/2008

ALLIED Vision Technologies