

PICOLO Diligent Plus™

PCI Express full D1 video capture and MPEG4 compression board

P R E L I M I N A R Y

The PicoLO Diligent Plus is a PCI Express video capture board offering video capture and MPEG-4 compression for 4 channels. It provides in real-time four full D1 video streams to the PC and, simultaneously, four full D1 compressed video streams.

The acquisition rate of 100/120 frame/s or 200/240 field/s -PAL / NTSC- is permanently available.

An on-board header exposes 4 contact-closure digital inputs and 5 solid-state relay digital outputs for system integration. A powerful watchdog function further eases the PicoLO Diligent Plus integration in a system. The PicoLO Diligent Plus is a 1-lane PCI Express board with a delivery bandwidth of 170 MByte/s.

- **4 PAL/NTSC video inputs**

- 200/240 fields/s acquisition, constantly available

- **4 video inputs: simultaneous full D1 preview and full D1 compressed capture**

- **Hardware MPEG-4 compression**

- 4 high-quality compression chips
 - Enhanced motion adaptive de-interlacing functions
 - Programmable Group Of Pictures structures and sizes
 - Advanced MPEG bit-rate control (CBR/VBR) from 1Kbps to 6 Mbps

- **9 Digital I/O lines**

New robust and easy-to-use "Professional" input and output lines

- 4 "Professional" input lines
 - Contact-closure inputs that can be directly connected to switches, relays, opto-coupled devices, 5V or TTL output, 12V or 24V output
 - Not sensitive to polarity
 - Providing a very high common-mode immunity
- 5 "Professional" output lines
 - Solid-state relay outputs that can be directly connected to relays or opto-coupled devices, TTL inputs
 - Not sensitive to polarity

Direct connection to various kinds of devices

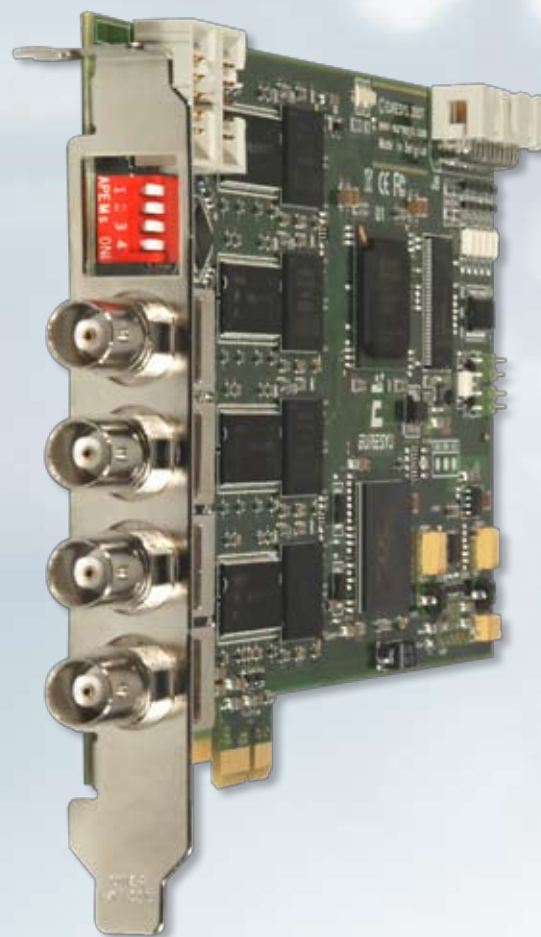
- **Configurable hardware watchdog**

- **One selected video output with cascading capability**

- **PCI Express x1**

- 170 MB/s delivery bandwidth

PCI EXPRESS™



www.euresys.com
info@euresys.com

© Copyright 2007 Euresys s.a. Belgium. Euresys® is a registered trademark of Euresys s.a. Belgium. Other product and company names listed are trademarks or trade names of their respective manufacturers. Euresys reserves the right to modify product specifications and price without previous notice.


EURESYS™
Excellence in vision

Software Support

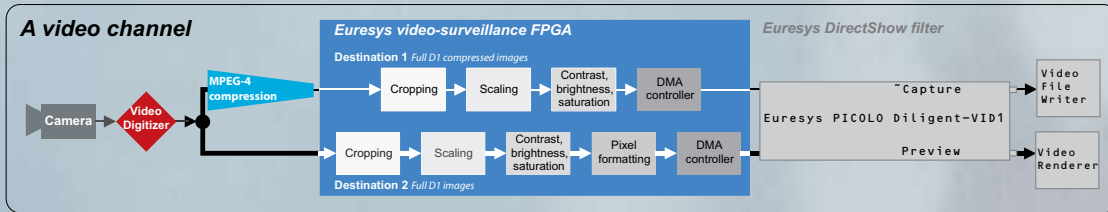
Euresys DirectShow source filters

Euresys provides dedicated DirectShow source filters for rapid application development. All the standard DirectShow features, such as property pages or time stamping, are supported.



PICOLO Diligent Plus, a natural match with the DirectShow API

Thanks to the Euresys FPGA technology, the design of the Picolo Diligent Plus board naturally matches the DirectShow API. The **double destination per video channel feature** is implemented directly from the video acquisition on the board. DirectShow users naturally benefit from it. The Picolo Diligent Plus acquisition and compression board simultaneously provides four live full D1 video streams for display and four live full D1 compressed video streams for recording or broadcasting. **Time stamping** is performed on board, directly in the FPGA conferring to it a particularly high accuracy. This allows the perfect time localisation of events or images and a precise and smooth playback.



MultiCam™ 6.1

MultiCam for Microsoft Windows 2000®, XP®, Server 2003® and Vista®
 MultiCam for Suse Linux Enterprise Server 10
 C, C++, .NET classes and ActiveX controls
 MultiCam IDEs

| | |
|-----------------------------|--|
| Using MultiCam with C++ | Microsoft Visual C++ 2005 Microsoft Visual C++ .NET 2003 Microsoft Visual C++ 6.0 Borland C++ Builder 2006 Borland C++ Builder 6.0 gcc c++ 4.1.0-28.4 |
| Using MultiCam with .NET | Microsoft Visual C# 2005 Microsoft Visual C# .NET 2003 |
| Using MultiCam with C | Microsoft Visual C++ 2005 Microsoft Visual C++ .NET 2003 Microsoft Visual C++ 6.0 Borland C++ Builder 2006 Borland C++ Builder 6.0 gcc 4.1.0-28.4 |
| Using MultiCam with ActiveX | Microsoft Visual Basic 6.0 Borland Delphi 2006 Borland Delphi 6.0 |

Ordering Information

ORDER CODE

DESIGNATION

Video Capture board

6002

PICOLO Diligent Plus

America, Euresys Inc.
 500 Park Boulevard, suite 525, Itasca, Illinois 60143
 Toll free: 1-866-EURESYS - Phone: 630-250-2300 - Fax: 630-250-2301
 Asia, Euresys Pte. Ltd.
 627A Aljunied Road, #08-09 BizTech Centre, Singapore 389842
 Phone: +65 6748 0085 - Fax: +65 6841 2137
 Japan, Euresys s.a. Japan Representative Office
 AIOS Hiroo Building 8F, Hiroo 1-11-2, Shibuya-ku, Tokyo 150-0012
 Phone: +81 3 5447-1256 - Fax: +81 3 5447-0529
 Europe, Euresys s.a., Corporate Headquarters
 14, Avenue du Pré-Ailly, B-4031 Angleur, Belgium
 Phone: +32 4 367 72 88 - Fax: +32 4 367 74 66

www.euresys.com

info@euresys.com

Your distributor

