

# **VisioWave CPCI-4 Video Board**



## **Industrial CPCI Video Codec Board**

**CompactPCI video codec board providing real-time capture, processing, encoding or decoding of four simultaneous and independent high quality full rate and full resolution video channels.**

**VisioWave is offering complete and integrated security solutions including centralized configuration and management, high quality and high performance distributed video switching through an effective and optimized usage of any IP or ATM network, intelligent storage features, support for telemetry, alarm management and high level graphic user interfaces.**

**Designed for industrial grade digital video networking applications and OEMs, the VisioWave CPCI-4 Video Codec Board provides four independent video channels for real-time capture, compression and playback of analog video signals with high quality at all compression ratios.**

**It is an ideal solution for industrial high port density, and fault tolerant oriented applications requiring ease of use, precision and scalability of the compressed data.**

## **Product highlights**

- High performance CompactPCI local bus
- Four totally independent video codec channels
- Twelve BNC connectors for composite video interfaces (switching capabilities)
- Real-time capture or playback of analog video streams
- On board compression/decompression of CCIR-601 full motion video
- PAL, NTSC full field and frame resolutions
- VisioWave 3-D Wavelets compression technology for extremely low bandwidth (0.5 Mbps to 10Mbps) and latency
- Visually loss-less compression at 2 Mbps
- Constant bit rate or constant quality video
- Flexible and dynamic bandwidth control
- Precise compressed bit rate control
- User selectable compression ratio
- Led display for video and on board status
- Software reconfigurable controller allowing updates and feature enhancement
- Total compatibility with VisioWave Security Software Modules

### Wavelets compression technology

VisioWave's wavelets compression technology allows to compress full-format color video streams in real-time. Wavelets compression scheme is one of the latest discoveries in mathematics for signal processing. It has proved to be the best method for compression of still images and motion video. Wavelets compress video with higher quality and less bandwidth than any other compression technology.

### System requirements

Total compatibility with VisioWave Evolution DIGITAL Video Equipments and Security SDK (see product brief).

#### For OEMs, engineering developments or consumer use :

- 6U Compact PCI backplane chassis
- Pentium III 300 MHz processor or higher
- 256 Mbytes RAM
- Driver for Microsoft® Windows 2000
- 100 or 1000 Mbps Ethernet network adapter board
- 155 or 622 Mbps ATM Network adapter board
- Hard disk drive
- CD-ROM drive

### Technical specifications

#### Video format and resolution

- Full motion CCIR-601 analog video
- PAL (720x576 @ 50fps)
- NTSC (720x486 @ 60fps)

#### Input/Output

- 4 totally independent video channels
- 12 composite video BNCs - 75  $\Omega$
- Possible switching between ports
- On Screen Display facilities

#### Bus

- CPCI 64 bits / 66MHz @ 5V or 3.3V
- 6U form factor
- 5.5v and 3.3V power supply

#### Video compression

- 3-D Wavelets compression technology
- Low latency: 100 - 250 ms
- Adjustable bandwidth: 0.5 - 10 Mbps
- Visually loss-less at 2 Mbps

### Electromagnetic compatibility (EMC) notices

#### USA

This equipment has been tested and found to comply with the limits for Class A computing device pursuant to Subpart B of part 15 of FCC rules.

#### Europe CE

This digital equipment fulfils the requirements for radiated emission according to limit B of EN55022/1987, and the requirements for immunity according to EN50082-1/1992 residential, commercial, and industry.



## Contact and ordering information



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