



EureCard™ PICOLO Tetra-X™

Real-time PCI-X video capture board

- *240 fps*
- *64-bit, 133 MHz PCI-X bus*
- *4 color video digitizers for video streaming & camera switching*
- *Expandable architecture:*
 - *3 Video Expansion Brackets for up to 16 camera inputs*
 - *1 Video Expansion Bracket 12 for 16 camera inputs*
 - *1 Video Expansion Bracket for 4 buffered video outputs*
 - *MIO, I/O module compatible*

Picolo Tetra-X is a new powerful PCI-X video capture board dedicated to high-demand **multiple camera applications on the security or industrial market**. Picolo Tetra-X has a superior ability to manage streaming and switching. This PCI-X board allows acquiring even more image formats, including **RGB 24 color format**. Thanks to its four color video digitizers, Picolo Tetra-X acquires four real-time full size 16-bit image sequences in parallel with **an impressive accuracy in the data transmission**. With the three video expansion brackets, these Picolo boards also manage efficiently quick switching from up to sixteen cameras. TTL I/O lines are provided for system integration. In addition, Picolo Tetra-X is compatible with the MIO module, enabling to implement isolated inputs and outputs.

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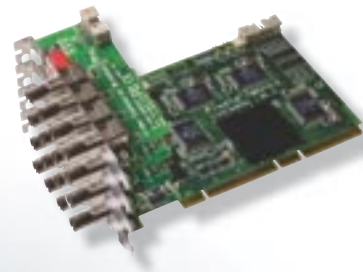
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Excellence in vision

Streaming with four simultaneous video digitizers

Piccolo Tetra-X is able to simultaneously digitize **four video signals** and to send the resulting digital data in real time into the PC memory through the PCI bus. The video streams issued from four cameras are displayed and/or recorded **in parallel**.

Quick switching

Adding three Video Expansion Brackets, Piccolo Tetra-X provides the four digitizers with sixteen inputs. This maximum configuration leads to a **16-camera system**. The **four digitizers** of the Piccolo Tetra-X board are switched between these inputs at a **very high frame rate**.



NTSC configuration	4 camera	8 cameras	12 cameras	16 cameras
Fields / Frames per second (per camera)	60 / 30	8.6 / 6.7	6 / 4.6	4.6 / 3.5
Fields / Frames per second (all cameras)	240 / 120	69 / 54	72 / 55	74 / 56
PAL configuration	4 camera	8 cameras	12 cameras	16 cameras
Fields / Frames per second (per camera)	50 / 25	7.1 / 5.6	5 / 3.8	3.8 / 2.9
Fields / Frames per second (all cameras)	200 / 100	57 / 45	60 / 46	61 / 47

64-bit, 133 MHz PCI-X bus for an impressive accuracy in the data transmission

The Piccolo Tetra-X bus brings the capability of the PCI interface to a theoretical bandwidth greater than 1 GB/s. Connection to such a high capability bus **drastically reduces** the latencies on the bus and **the risk of fifo-overflow errors and data losses**. In addition, it allows the parallel use of **many Piccolo Tetra-X in the same PC**. A PCI-X bus is fully backward compatible with conventional PCI motherboards.

Maximizing performances

With a 64-bit 133 MHz PCI-X bus, Piccolo Tetra-X takes advantage of the PCI-X slot bandwidth capabilities. This Piccolo frame grabber is able to simultaneously acquire full size video images in real time. The Tetra-X acquires images with a more demanding image format, for example the popular **RGB 24 color format**.

System consideration may lead to functional trade-off. In order to reach the targeted performance, the user will consider downsizing images, operating in parallel of less than four digitizers or tailoring the bitmap image format. In particular, **acquisition of PAL 720 pixels images in RGB 24 or full resolution NTSC RGB 24 images on the four digitizers in parallel is supported!**

Ordering Information

PRODUCT NAME	PRODUCT DESCRIPTION	PART NUMBER
PCI capture boards		
EureCard PICOLO Tetra-X	CCTV PCI-X capture board with four digitizers	1304
Video modules		
Video Expansion Bracket (cable included)	Four-way Piccolo Tetra Video Expansion Bracket	1203
Video Expansion Bracket 12 (cable included)	Twelve-way Piccolo Tetra Video Expansion Bracket	1204
I/O modules		
MIO Module (cable included)	Isolated input / output module	1202

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