

## PIXCI® D3X

### PIXCI® D3X Frame Grabber Supports Over 24 Multi-Channel Digital Output Cameras

The PIXCI D3X is a PCI-compatible imaging board supporting camera configurations with 3 to 8 data channels, or with 30 to 64 total data bits - cameras that are beyond the interfacing capacity of the PIXCI D2X.

**ONE PIXCI D3X BOARD ON ONE BUS** - interfaces to a maximum of 32 bits or 4 data channels to a maximum sustained data transfer rate of 100 MB/sec.

Supported Cameras Include:

Atmel-Grenoble TH78CA13	DALSA CT-P1-4096W
Atmel-Grenoble TH78CA14	DALSA CT-P4-6144W
Atmel-Grenoble TH78CA15	DALSA CT-P4-8192W
DALSA DS-41-065K0955	DALSA TR31-01K25 10-Bit
DALSA DS-41-300K0200	DALSA TR31-02K25 10-Bit
DALSA CT-E4-4096W	Pulnix TMC-9700
DALSA CT-P1-1024W	Toshiba IK-TU51CU
DALSA CT-P1-2048W	Toshiba IK-TU61

**TWO PIXCI D3X BOARDS ON ONE BUS** - interfaces to a maximum of 64 data bits or 8 data channels to a maximum of 100 MB/sec.

Supported Cameras Include:



#### Features:

- Single or Dual Board Configurations
- Line Scan or Area Scan
- Three To Eight Data Channels
- 30 to 64 Bit Camera Data
- Asynchronous Capture Control
- Differential Trigger In / Strobe Out
- Camera Integration and Reset Control
- 32 bit PCI Bus Master
- 132 MB/s Burst Transfers
- Compatible with 32-Bit and 64-Bit PCI Buses
- Video Rate Image Sequence Transfer to Motherboard Memory
- Windows & Linux, 32 & 64-bit

DALSA DS-4x-64K1M

**TWO PIXCI D3X BOARDS ON TWO BUSES** - interface to a maximum of 64 data bits or 8 data channels to a maximum of 200 MB/sec.

Supported Cameras Include:

DALSA CT-F3-2048

DALSA CT-F3-4096

DALSA 1M60

DALSA 4M15

**COMPATIBILITY GUARANTEED** - The product designation "PIXCI D3X" refers to a series of 24+ custom-configured imaging boards; each optimized to support one of 24+ specialized digital cameras. Before a camera is added to the [Camera Compatibility Guide](#), EPIX tests the camera and designs a camera-specific interface. Engineers custom program the PIXCI D3X interface to exactly support the camera's video timing specifications and electronically tag the board with the camera's identification code. An "Adjust Dialog" menu, optimized to match the camera's capabilities, is added to the XCAP imaging program.

**OPTIMIZED IMAGING SYSTEMS** - EPIX, Inc. offers complete imaging systems including cameras, imaging boards, software, cables, computers, lenses, and lighting. All components of an EPIX imaging system are configured and tested together, as a system, so the system can be guaranteed to work properly, the first time, right out of the box.

### TTL MODULE



The optional [TTL Module](#) minimizes false triggers when using a TTL trigger with a cable longer than one foot. The TTL MODULE converts the TTL trigger into a differential signal for reliable triggering with up to 200 feet of cable.

The TTL MODULE also can generate a TTL strobe from the attached PIXCI® board. Compatible with PIXCI® CL1, CL2, CL3SD, D2X, D3X, SI, and SI4.

## SPECIFICATIONS

### RESOLUTION:

8 to 4,096 pixels per line  
1 to 4,096 lines per image  
(area scan)  
1 to 65,534 lines per image

### MAXIMUM FRAME RATE:

Camera Dependent

### CE / FCC CERTIFICATION:

PIXCI D3X was tested per EMC directive 89/336/EEC and

(line scan)

**SIGNALS:**

Differential RS-644  
Differential Trigger IN / Strobe  
OUT  
(Optional "TTL Module" allows  
TTL Trigger IN and TTL Strobe  
OUT)

**CONNECTIONS:**

1 100-pin cable receptacle  
2 10-pin headers

performed to class B.

**BUS REQUIREMENTS:**

32 bit, 33 MHz PCI bus master, or  
64 bit 66 MHz PCI bus master  
3.3V or 5V PCI Signaling

**DIMENSIONS:**

12.48 cm long by 9.33cm high (3.7"  
x 4.913") [short slot]



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