

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

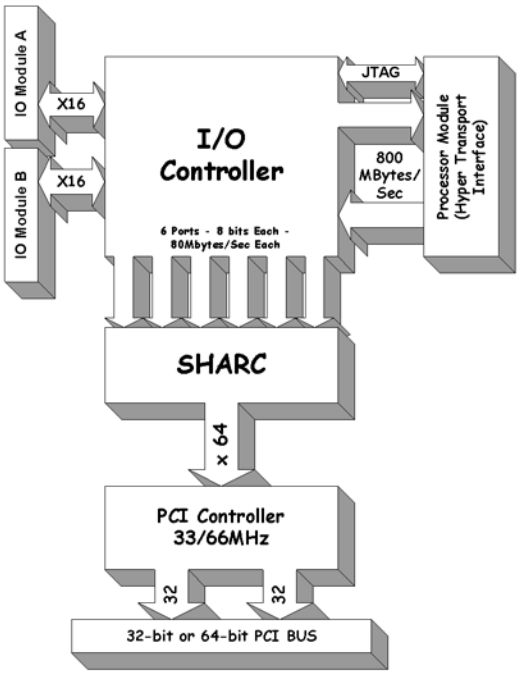
Find the *ICE Enterprises ICE-PIC4T* at our website: *Click HERE*

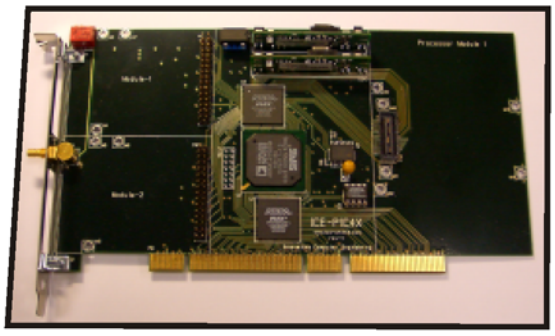
The 4th Generation

ICE PIC 4X
ICE PIC 4T

Announcing the ICE PIC4X - The innovative PCI based DSP processing solution with changeable "*Processor Modules*" designed specifically to answer the most demanding signal processing needs.

All of this.... on One PCI Card





The world is complicated. Digitize and process *your* world with the new ***ICE PIC4X*** and available Digital Tuner Demodulator Module(DTDM) processor. Load your algorithms into the Virtex-II PRO and make things easier.

Let the ICE PIC4X w/DTDM be Your Solution.

Innovative Computer Engineering 10302 Eaton Place Fairfax VA 22030
www.ice-online.com 703-934-4879 Voice 703-383-6617 Fax

The 4th Generation

ICE PIC 4X
ICE PIC 4T

Specifications and Options

The ICEPIC 4T/4X input/output options

Input/Output Combinations

Dual 16-bit I/O modules sites allowing any combination of digital and analog input and output.

- Dual Analog Inputs
- Dual Analog Outputs
- Dual Digital Inputs
- Dual Digital Outputs
- Digital Input - Analog Output
- Analog Input - Digital Output
- Daisy Chaining of Digital inputs using Dual Digital Input and Digital Output

Input/Output Modules

Analog Input Modules

ICE-A2D	12-bit	65	MSamples/Sec Maximum
ICE-A2D-r4	14-bit	65	MSamples/Sec Maximum
ICE-A2D-r5	12-bit	105	MSamples/Sec Maximum
ICE-A2D-r6	8-bit	200	MSamples/Sec Maximum
ICE-A2D-r7	14-bit	105	MSamples/Sec Maximum

Analog Output Modules

ICE-D2A	14-bit	125	MSamples/Sec Maximum

Digital Modules

ICE-E2D	ECL to Digital
ICE-D2E	Digital to ECL
ICE-UDP	Gigabit Connection with UDP/IP encapsulation
ICE-LV2D	16-bit LVDS Digital input
ICE-D2LV2	16-bit LVDS Digital Output
ICE-FPDP	32-bit 25MHz FDPD Module

Digital Modules - Bi-directional

ICE-CXD	CEPT E3,E2,E1 Mux and Demux with AMI, HDB3, B3ZS or B8ZS soft-uploads
ICE-UXD	Design Your Own Module PCB
ICE-GXD	Gigabit Ethernet with real time 8b/10b encoding and decoding support
ICE-SONET	STM-1, STM-4, OC3, OC12 Bi-directional Module
ICE-SONET-r2	STM 1, STM-4, STM-8, STM-16 OC3, OC12, OC24, OC48 155.52, 622.08, 1244.16, 2488.32 Line Rates
ICE-LVXD	16-bit LVDS Bi-directional module

Please Visit WWW.ICE-ONLINE.COM for further information on each module.
Specifications subject to change without notice. Availability subject to market conditions.

General Specifications

Dimensions and Weight

ICE-PIC4T	6.50 in. / 165 mm Length 4.25 in. / 108 mm Height	ICE-PIC4X	9.00 in. / 228 mm Length 4.25 in. / 108 mm Height

Weight: Approximately 1 pound with modules onboard

Power Consumption on PCI slot (3.3 and 5volt inputs combined)

ICE-PIC4T	7 watts operating at 100Mbytes/sec	ICE-PIC4X	7 watts operating at 100Mbytes/sec plus modules site consumption

Environment Conditions

Storage Temperature
-10 to +60 degrees Celsius
Operating Temperature
0 - +40 degrees Celsius
Storage Humidity
20%-95% (non-condensing)
Operating Humidity
20%-80% (non-condensing)
Cooling : Fan and Convection cooling typical of desktop computer operating environments

Connections Based on Module

Optical Modules
Fiber connection
Digital Modules
40pin high density AMF Ribbon to transition panel
Analog Modules
SMB on Module to BNC for external clock
MMCX on module to BNC for analog

ICE PIC-4X Processor Modules

ICE-DTDM

ICE-DTDM - Digital Tuner Demodulator
- 1 - Virtex-II Pro - I/O routing, Filtering
  - Demodulator Look-up Tables
  - Bit Processing(22 GOPS)
- 32 - Channels of digital tuning
  - 8 - 100MHz Digital tuners each with 4 Channels
  - Digital resampling
  - preTuner at 200MSPS/28tap, or postTuner on each channel
- Greater than 2000 channel realtime Frequency Division de-Multiplexing

ICE-PLDM

ICE-PLDM - Programmable Logic Device
- 1 - Virtex-II Pro - I/O and SDRAM controller
- 4 - Virtex-II Pros for software programmable algorithms (22GOPS each)
- 128 Mbytes DDR400 NDRAM
  - 3.2GBytes/sec access

ICE-FPPM

ICE-FPPM - Floating Point Processor
- 1 - Virtex-II Pro - I/O routing, Filtering
  - Demodulator Look-up Tables
  - Bit Processing(22 GOPS)
- 4 - 250MHz floating point processors
  - 6Mbits
  - 40usec 1K Complex FFT
  - 50MHz 2K Real FFTs
  - 15MHz 1Mpoint Real FFTs
  - 1.5 GFLOPS or 6 GOPS each
- 128 Mbytes DDR400 NDRAM
  - 3.2GBytes/sec
  - Shared by PowerPC and Sharcs

ICE-DDSM

ICE-DDSM - Data Distribution/Storage
- 1 - Virtex-II Pro - I/O
  - bit pack/unpack
  - DDR SDRAM controller
- 1 Gbyte of DDR400 NDRAM configured for 6.4 GBytes/s RAM access
- 8 1.5/2.5/3.0 Gbit/sec bidirectional serial ports
  - programmable algorithms (22GOPS each)
- 128 Mbytes DDR400 NDRAM
  - 3.2GBytes/sec access

Innovative Computer Engineering 10302 Eaton Place Fairfax VA 22030
www.ice-online.com 703-934-4879 Voice 703-383-6617 Fax

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP