



## Artisan Technology Group is your source for quality new and certified-used/pre-owned equipment

- FAST SHIPPING AND DELIVERY
- TENS OF THOUSANDS OF IN-STOCK ITEMS
- EQUIPMENT DEMOS
- HUNDREDS OF MANUFACTURERS SUPPORTED
- LEASING/MONTHLY RENTALS
- ITAR CERTIFIED SECURE ASSET SOLUTIONS

### SERVICE CENTER REPAIRS

Experienced engineers and technicians on staff at our full-service, in-house repair center

### *InstraView*<sup>SM</sup> REMOTE INSPECTION

Remotely inspect equipment before purchasing with our interactive website at [www.instraview.com](http://www.instraview.com) ↗

### WE BUY USED EQUIPMENT

Sell your excess, underutilized, and idle used equipment. We also offer credit for buy-backs and trade-ins. [www.artisanng.com/WeBuyEquipment](http://www.artisanng.com/WeBuyEquipment) ↗

### LOOKING FOR MORE INFORMATION?

Visit us on the web at [www.artisanng.com](http://www.artisanng.com) ↗ for more information on price quotations, drivers, technical specifications, manuals, and documentation

**Contact us:** (888) 88-SOURCE | [sales@artisanng.com](mailto:sales@artisanng.com) | [www.artisanng.com](http://www.artisanng.com)



## ICP6000X for VMEbus

The ICP6000X is a programmable serial data communications processor board that links legacy and specialty protocol networks to VME-based computers.

The ICP6000X functions as a front end processor for real-time, mission-critical applications and off-loads high-speed data communications tasks which otherwise consume host processor capacity. The programmability and flexibility of the ICP6000X ensures that it can adapt as connectivity requirements change with the addition of protocols, clients, or devices.

### Wide Variety of Protocols

Over 100 different legacy and specialty protocols are available for use with the ICP600X. With more than 25 years experience in WAN protocol development, Simpack and Protogate have built the industry's most extensive library of legacy and specialty protocols, and Protogate is a leading supplier of network-level and link layer protocols such as X.25, HDLC, Bisync, Async, SCADA protocols, financial market protocols, and a wide variety of tactical, military, and radar protocols.

### Designed for Performance

The ICP6000X enhances system performance by off-loading CPU-intensive communications protocol processing and associated interrupts from the host processor. Up to 16 serial ports can be programmed to support different line speeds. On-board DRAM provides ample storage for protocol data buffering. On-board data buffering is useful for applications involving data segmentation, bursts of data, or host processing delays. The ICP6000X performs data transfers to and from its host by acting as a VMEbus master.

### Programmability

The ICP6000X is programmable for bit-synchronous, byte-synchronous, and asynchronous protocols to provide real-time support for data communications. Protocol software is downloaded to on-board DRAM, ensuring easy system support and field upgrades.

### Multiple High-Throughput Connections

Providing up to 16 full-duplex, serial interfaces on a single VME board, the

### Industry's Largest Selection of Protocols

Protogate supports more than 100 WAN protocols, including X.25, HDLC, BSC, Mode I (AUTODIN) and Mode II (AUTODIN), ADCCP, TADIL, SCADA, and many other protocols used by financial data services, airlines, utilities, transportation industries, the government and the military.

ICP6000X is the ideal choice for applications requiring multiple, high-throughput connections. Each line is independently configurable for different characteristics such as line speed, modem control, and clock source.

The ICP6000X features a Motorola 32-bit processor and a dual-bus architecture for optimal throughput. The processor and 32 DMA channels provide full-duplex support between on-board memory and the communications ports.

### **Using the ICP6000X**

The ICP6000X installs into the industry standard VMEbus. Protogate provides installation software, a variety of device drivers, and protocol software. Sixty-four Kbytes of EPROM contain the download boot program, extensive self-test diagnostics, and an enhanced on-line debugger. A separate EIA-232 port provides a local console interface for debugging control of the ICP6000X during program development and integration testing.

### **Toolkit Support**

Protogate offers a Protocol Toolkit to support development and integration of private or custom protocols. This toolkit provides everything needed to port custom protocols to the ICP6000X.

### **Features and Benefits**

- Links legacy and specialty networks to VME-based computers
  - Improves performance by off-loading protocol communications tasks from the host processor
  - Supports the industry's most extensive library of WAN protocols
  - Provides up to 16 independently programmable serial ports on a single board
  - Achieves high data rates with Motorola-based CPU, 1 MB DRAM, dual-bus architecture, and full-duplex DMA support
  - Allows development of custom protocols with an optional protocol toolkit
-

<b>Technical Specifications</b>	
<b>Application Environment</b>	
<b>Host Operating Systems</b>	Tru64 UNIX (Digital UNIX)
<b>Programming Support</b>	Protocol Toolkit for rapid development of custom protocols
<b>Protocol Support</b>	Wide variety of protocols including X.25, bisync, async, SCADA, and many more
<b>Hardware</b>	
<b>Processor</b>	Motorola 68E030, 32 MHz
<b>Memory</b>	4 MB DRAM on the processor bus.
<b>Serial Ports</b>	8 or 16 full-duplex, DMA-supported ports; Z85230 serial communications controllers; data rate of each port software selectable; transmit clock source jumper selectable; mandatory and optional modem control signals provided
<b>Electrical Interfaces</b>	EIA-232 EIA-449/EIA-422 MIL-STD-188C V.35
<b>Mechanical Interfaces</b>	8 port: EIA-232 or Mil-188, 1 high density 80 pin socket 8 port: EIA-449 or EIA-530, 2 high density 80 pin sockets 16 port: EIA-232, 2 high density 80 pin sockets Distribution boxes are available for each of the above configurations with the appropriate DB25 or DB37 connectors
<b>VMEbus Interface</b>	Conforms to VMEbus specification C.1 A32/A24/A16:D32/D16 Programmable 7-level VMEbus interrupter and 16 byte-wide dual-ported mailboxes
<b>Software Configurable Options</b>	VMEbus configuration settings, stored in EEPROM
<b>Power Requirements</b>	+5Vdc, 6.0A, maximum +/-12Vdc, 0.15mA,maximum
<b>Physical</b>	Form Factor: 6U single-slot VME Width: 234 mm (9.2 in.) Depth: 160 mm (6.3 in.) Front Panel: 20.3 mm (0.8 in.)
<b>Environmental</b>	Temperature: 0° to 55° C, operating; -20° to 85° C, non-operating Humidity: 0% to 90% R.H., non-condensing Altitude: 0 to 10,000 feet



## Artisan Technology Group is your source for quality new and certified-used/pre-owned equipment

- FAST SHIPPING AND DELIVERY
- TENS OF THOUSANDS OF IN-STOCK ITEMS
- EQUIPMENT DEMOS
- HUNDREDS OF MANUFACTURERS SUPPORTED
- LEASING/MONTHLY RENTALS
- ITAR CERTIFIED SECURE ASSET SOLUTIONS

### SERVICE CENTER REPAIRS

Experienced engineers and technicians on staff at our full-service, in-house repair center

### *InstraView*<sup>SM</sup> REMOTE INSPECTION

Remotely inspect equipment before purchasing with our interactive website at [www.instraview.com](http://www.instraview.com) ↗

### WE BUY USED EQUIPMENT

Sell your excess, underutilized, and idle used equipment. We also offer credit for buy-backs and trade-ins. [www.artisanng.com/WeBuyEquipment](http://www.artisanng.com/WeBuyEquipment) ↗

### LOOKING FOR MORE INFORMATION?

Visit us on the web at [www.artisanng.com](http://www.artisanng.com) ↗ for more information on price quotations, drivers, technical specifications, manuals, and documentation

**Contact us:** (888) 88-SOURCE | [sales@artisanng.com](mailto:sales@artisanng.com) | [www.artisanng.com](http://www.artisanng.com)