

PCI Embedded Controller

The InterGrator i is a 16 port serial communications controller with a PCI bus interface. The controller has its own processor and memory and is ideal for embedded applications. It is supplied with a developers help kit to assist in developing programs to be downloaded onto the controller. Each port can be configured synchronously or asynchronously.

The controller requires an external interface and can be connected to Control's range of RocketPort external interfaces for RS232 and RS422 communications. When the controller is used with the InterGrator Universal Interface then each port can be configured for RS232, RS422, RS423, RS485, and Current Loop.

InterGrator i Features

- ◆ 16 ports configurable for Synchronous or Asynchronous communication
- ◆ NEC V53 16MHz on board processor (Intel Binary Compatible)
- ◆ 1 meg of DRAM
- ◆ Industry standard ESCC Z85230 (USART)
- ◆ PCI Bus Interface
- ◆ Most flexible interface configuration available

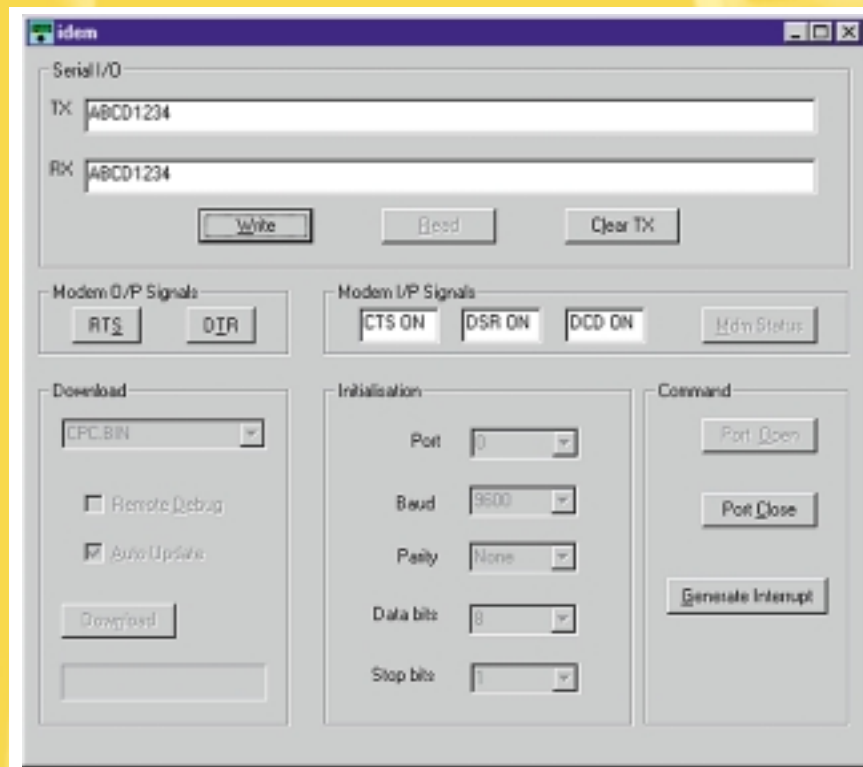




Developers Help Kit

The Developers Help Kit from Control Europe has a unique Windows based Control Centre (see screen capture below). Software can be downloaded to the InterGrator i, the ports can be opened, data transferred and modem control signals changed by a click of the mouse from the Control Centre. The Control Centre software is based on **KRFTech's Windriver Device Driver Development Toolkit**. A 30 day evaluation copy is included with the Help Kit. Supplied on CDROM is a comprehensive 120 page developers guide for the InterGrator i, sample on board control program, sample loader program, Win 95/98/NT port drivers, installation programs and Acrobat Reader 4.0. The source code for the port drivers can be provided on the understanding that the developer is a current member of the Microsoft Developers Program.

To assist with debugging the embedded application, Borland's remote turbo debugger is included in the InterGrator i's firmware. **No need for expensive emulators.** In addition an optional PC back plate is provided to developers. This back plate has a DB9 connector for connecting a remote PC to allow on board software debugging, a switch to reset the board without having to reboot the PC and a switch to invoke the terminal debugger. The terminal debugger is an additional debug tool similar to the DOS Debug utility, it can be used with an ascii terminal or terminal emulation software running on a PC.



Developer Help Kit Features

- ◆ Unique Windows based Control Centre (allows software download and port manipulation)
- ◆ Comprehensive Developer Guide (CDROM)
- ◆ Working sample downloader & on board control program source
- ◆ Windows 95/98 & NT Port Drivers (source code available please note conditions)
- ◆ Turbo Debugger Remote and Terminal Debugger
- ◆ Back-plate with switches for board reset, terminal debugger and DB9 connector for Turbo debugger remote.
- ◆ 30 day evaluation copy of KRFTech's Windriver.

InterGrator i Specifications

Environmental

- ◆ System on
 - Air Temperature 0 to 50°C
 - Humidity 8 to 80%
- ◆ System off
 - Air Temperature -65 to 150°C
 - Humidity 20 to 80%
- ◆ Altitude 0 to 3050m

Power

- ◆ Heat Output 15.2 watts
- ◆ Current Consumption
 - +5V 2.54A
 - +12V 0.01A
 - 12V 0.22A

Dimensions

- ◆ Length 174mm
- ◆ Width 99mm
- ◆ Height 13mm

On board processor

- ◆ NEC V53 16MHz

Data Rate

- ◆ Asynchronous 50 – 76.8 Kbps
- ◆ Synchronous 19.2 Kbps

Interface Options

- ◆ RocketPort Interfaces
 - RS232 DB25 female
 - RS232/422 DB25 female
 - RS232 (Rack Mounted) RJ45
- ◆ InterGrator Universal Interface
 - RS232 DB25 female
 - RS422 DB25 female
 - RS423 DB25 female
 - RS485 DB25 female
 - Current Loop DB25 female

MTBF

- ◆ 11.9 years

Certification

- ◆ CE Approval

On Board DRAM

- ◆ 1 megabyte dual ported





Connect with Control

Control is the leading global provider of Serial Communication Controllers and thin-server solutions for office, retail, and industrial automation applications. Control products interconnect, transport, and transform information between devices and systems for process control and management. Control products enable data communications for remote LAN and Internet access, and offer a powerful delivery platform for application-specific embedded systems.

Since 1982, Control has pioneered serial communications initially through its traditional data communications technologies and later with its thin servers. The company prides itself on quality products and unequalled customer service.

In data communications, Control developed the industry's first serial multiport card for personal computers and today ranks near the top of this stable and growing industry. In 1995, the company launched its flagship RocketPort™ serial concentrator, which utilises a Control-developed RISC processor to minimise CPU overhead, maximise ease-of-use, and application software compatibility. RocketPort established a new price/performance benchmark in the industry – one that has rarely been challenged.

Control's data communications products are widely used to connect peripheral serial devices, within embedded systems, to local servers, and across the enterprise. Applications of the technology include connecting retail point-of-sale devices, ATM machines, other informational & transaction kiosks, process control, manufacturing automation devices on the factory floor, security systems, transportation/traffic monitoring & control systems, and a wide variety of other industrial automation applications. In 1997, Control developed the industry's first multiple-modem card for personal computers that utilised on-board processing. The RocketModem and its successor, RocketModem i, are now the industry's leading analogue multi-modem cards, which are widely used by small and medium enterprises to build communications servers for remote LAN and Internet access.

In addition to providing industry-leading technology-based products, Control is the leading provider of enterprise integration systems to the hospitality industry. The company achieved this position through its historical focus on providing serial data communications products to hotels and motels, which was strengthened through its 1999 acquisition of Protocol Technologies, Inc. Today, Control offers an unequalled suite of communication and integration technologies for this industry sector.

Control is committed to building relationships with worldwide technical and strategic partners. Our products are designed to work with the widest range of hardware and software environments to provide seamless enterprise integration. When you need to connect devices or systems in the enterprise – Connect with Control.

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