

# Serial2000

8-channel Serial Port Controller for PC/104plus



**Advanced Micro  
Peripherals**

THE EMBEDDED VIDEO EXPERTS

The Serial2000 provides eight asynchronous communications ports on a single low-power PC/104plus card. It provides an unprecedented level of serial port integration, performance and flexibility and is a cost-effective means of adding serial ports to a PC/104plus system.



The Serial2000 PC/104plus utilizes ultra-high performance industry standard UARTs with features to provide enhanced flow control at extremely high data rates. Each of the eight channels may be individually configured for RS232, RS422 or RS485 operation at asynchronous speeds in excess of 4Mbits/sec. The high bandwidth 32-bit PCI bus ensures that all eight channels can be operated concurrently at their maximum speed.

High-speed

data

throughput

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Up to four Serial2000 cards can be hosted on a single PC/104plus computer to provide up to 32 high-performance serial ports.

Software drivers are supplied for the most popular operating systems including Windows, Linux and RTOS such as QNX.



Rugged,

low-power

operation

## Applications

PTZ camera control

Ideal for Multi-drop LAN applications

Vending Machines, POS, ATM systems

Embedded Internet server

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## Features

Easy configuration

Single +5V power supply

64 Byte FIFO per channel

Standard PC/104plus form factor

High bus bandwidth PCI technology

High-speed Asynchronous serial ports

Flexible software/hardware handshaking

Speeds in excess of 4Mbits/sec per channel

UK design, manufacture and technical support

Support for a wide range of Operating Systems

Individually-configurable RS232/422/485 channels

Comprehensive  
software support  
across major  
operating systems

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**Serial Ports**

8 full/half-duplex serial ports  
 RS232, RS422, RS485 jumper-selectable per channel  
 RS232 Asynchronous speed in excess of 230.4kBaud  
 RS422/485 Asynchronous speed in excess of 4Mbits/sec  
 64Byte FIFO per channel  
 32-bit PC/104plus PCI Bus interface

**Modem control lines**

CTS, DSR, RI, DCD, DTR, RTS per RS232 channel

**Physical connectors**

PC/104plus bus top and bottom stackable pass-through  
 2 Serial ports 40 pin 0.1 inch headers

**Miscellaneous**

Single +5V at less than 800mA  
 Operating temp of 0 to 60°C or -40°C to +85°C (extended temp option)  
 Top and Bottom stackable PC/104plus, PC/104 pass-through  
 Standard 3.6 x 3.8in PC/104plus form factor

**Drivers and Libraries**

Windows 2000/NT/CE/XP-Embedded  
 Linux  
 QNX

**Related Products**

Synchro104	PC/104 8-port HDLC/SDLC communications controller
Micro886ULP	Ultra Low Power PC/104+ Crusoe Computer
Tiny886ULP	Ultra Low Power PC/104+ Crusoe Computer
Tiny-C3 High	Performance PC/104+ Computer
Tiny-GX86	Ultra Low Power PCI-104 computer

**Ordering Information**

Serial2000-8	Serial2000 with 8 serial ports
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