

PRODUCT BRIEF

Industrial PC system for use with xPC Target™

EAGLE 104

Key Features

- Designed for use with xPC Target™
- Celeron M/Pentium M/Core2Duo processors
- Ethernet, Video, and PC104+ interfaces
- 6-40V DC bus or AC mains input
- Compact PC104 form factor
- Multiple communication protocol support¹ (CAN, RS232/RS422, UDP, TCP/IP)
- Compact Flash card for embedded OS and on-board data logging
- Data logging on host PC via Ethernet using Pathway's OpenSim Calibration software
- Fully customizable I/O
- On-board 1 GB to 4 GB RAM
- External floppy drive connection
- Standard temperature range of 0°C to +60°C
- Extended temperature range of -40°C to +85°C

Optional components

- External floppy drive
- Interface box for addition of loads
- Custom add-on boards based on customer requirements for a combination of power and signal conditioning
- Breakout boards and cables
- Additional COTS PC104 I/O boards

Applications

- With MATLAB/Simulink® and xPC Target™
 - Rapid prototyping
 - Data Acquisition
 - Hardware-in-the-loop simulation and testing



EAGLE 104

Technical Details

Processor and Memory

- Support for 1.8 GHz Pentium M processor
- Support for 2.26 GHz Core2Duo processor
- Support for 1.0 GHz Celeron M processor
- Support for up to 4 GB system RAM

Interfaces

- Two RS232 channels and one parallel port
- One integrated xPC Target™ compatible 10/100 Ethernet interface (I82559)
- One floppy drive interface (via parallel port)
- Internal PC104/PC104+ interfaces for additional I/O cards
- 2 CAN channels using CAN card/s
- Two USB ports (USB 2.0 Compliant)

Memory

- Support for up to 4 GB RAM
- Support for up to 8 GB Compact Flash card

Analog I/O (Fully Customizable)

- 16-bit, 32 single ended mode or 16 differential mode analog inputs
- 12-bit, 4 channel analog outputs
- Programmable full scale range on inputs and outputs
- External A/D triggering and gating inputs
- Refer to catalog for available options

Digital I/O (Fully Customizable)

- 24 bi-directional lines
- 7 auxiliary I/O lines with programmable functions
- Buffered I/O
- One 16-bit timer counter
- User configurable pull-up/pull-down resistors
- Refer to catalog for available options

Physical Interface

- Multiple front panel connectors for signals and communications
- Rear panel power, parallel port, video port, mouse and keyboard ports
- 85 mm high x 250 mm wide x 190 mm deep anodized aluminum enclosure for the CPU and I/O cards
- Top is removable for interior access and add-on I/O card and signal conditioning card installation

Operating Conditions

- Temperature range of 0°C to +60°C, extended temperature range (-40°C to +85°C) available
- RH 10-85% non-condensing
- AC mains or 6 to 40V DC power input

¹ Support for CAN protocol via add-on card.

Headquarters: Pathway Technologies Inc.
 25 Skippack Pike, Suite 203
 Ambler, PA 19002
 (215) 542 9831 Phone
 (775) 490 2068 Fax

on the web: www.pathwaytechnologies.net
 e-mail: info@pathwaytechnologies.net