CAN104

Dual-Channel PC/104 CAN Controller

Advanced Micro Peripherals
THE EMBEDDED VIDEO EXPERTS

The Advanced Micro Peripherals CAN104 is a two-port, high-speed Controller Area Network (CAN) interface controller based on the rugged and compact PC/104 form factor.

The CAN104 contains two Philips SJA1000 CAN controllers with advanced features for use in automotive and general industrial applications. CAN104 supports both BasicCAN power-up mode and the enhanced functionality of the PeliCAN mode.



In the PeliCAN mode the CAN104 handles all CAN frame types according to CAN specification 2.0B and provides a number of error analysis functions to support diagnosis, system maintenance and performance optimization.

Robust networking in automotive and industrial environments

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EMBEDDED-PC PC/104 MODULES

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The CAN104 features an optional Compact Flash adaptor providing solid-state disk storage for Tiny and Micro886 PC/104plus computer systems.



High-speed CAN data throughput

Applications

Data Acquisition

Machine Control

Machine networks

Test and Measurement

Industrial Process Monitoring

Building and Lift Management

Road Traffic Signalling and Control

Speed Cameras and Traffic Monitoring

Vending Machines, POS, ATM Systems

Automotive Instrumentation and Metering

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CAN104

Comprehensive

software

support

Features

Single +5V power supply

CAN bit rates up to 1Mbits/sec

Standard PC/104plus for factor

BasicCAN and PeliCAN support

Selectable network termination

C/C++ Library for development

Two independent CAN Controllers

Supports 11-bit and 29-bit identifiers

Message FIFO to offload PC/104 host CPU

Optional FlashDisk for Tiny/Micro886ULP

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CAN Channels

2 Channels each with SJA1000 Controller
Basic CAN Mode support
Extended CAN Mode (PELICAN Mode) support
Two independent full-duplex channels

CAN Modes

Basic Mode
- Extended Receive Buffer (64-byte receive FIFO)
- Up to 1MBit/sec data rates
- Support for 11-bit and 29-bit identifiers

PELICAN Mode Extensions
- Error counters with read/write access
- Error warning limit
- Error Interrupts
- Listen-only capability
- Hot-plugging support

CAN Interface

Two independent non-isolated CAN buses

Physical

Single +5V at less than 700mA
Operating Temp 0˚C to 60˚C or -40˚C to +85˚C (extended temp option)
Standard 3.6 x 3.8in PC/104+ form factor

Solid-State Disk

The CAN104 is available with optional bootable CompactFlash Solid-State Disk (SSD) especially for use with Micro886ULP and Tiny886ULP PC/104+ Computers

Ordering Information

CAN104	2-channel PC/104 CAN Controller
Cable-CAN 104	Cable set for CAN104 Controller
CAN104-SSDxxxx	2 CAN Channels plus CFlash SSD, where
CAN104-SSD0512	512MBytes FlashDisk
CAN104-SSD1024	1GBytes FlashDisk
CAN104-SSD2048	2GBytes FlashDisk
CAN104-SSD4096	4GBytes FlashDisk

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