PM-1002
PC/104 plus Dual CAN & One LAN Module

PM-1055
PC/104 plus 3 x 10/100/1000Mbps Ethernet Module

SBC

PC/104 Products

PM-1002

Cable sets

PM-1055

SPECIFICATIONS

◆ PC/104 Plus form factor
◆ Dual CAN bus function, with Phillip SJA1000T CAN controller, Phillip 82C251 CAN transceiver
◆ One 10/100Mbps Realtek Rtl8100BL LAN
◆ Ship with dual DB-9 CAN ports and RJ45 LAN port cable sets
◆ O.S Supporting: Windows 98/NT/2000/XP, Linux & Win CE.NET

What PC/104 stands for?

A modular system architecture that uses 3.5" square boards that snap together. PC/104 products are widely used, because this "stack through" bus, which uses the ISA technology, it provides a compact and rugged design for building process control and embedded systems. PC/104+ are PCI-based boards rather than ISA based.

CAN Applications

The industrial truck sector comprises elevating trucks, fork-lift trucks and high-lift trucks for a large variety of applications. The primary tasks of industrial trucks are thus the moving, raising, lowering, turning, tilting, gripping and releasing of goods. These complex movement patterns and the exact and safe positioning of the loads are ensured by the automatic control system. The potentiometers are installed either directly at the actuator of the steering system or – when driven indirectly by means of a pinion and toothed belt – at the lifting gear, or at the fork adjuster of a fork lift truck. The CAN-based control systems are fitted with interfaces recognizing the potentiometric output signals.

CAN is used as embedded network and as in-vehicle power-train network in many off-road and off-highway vehicles. The electronic control units (ECUs) connected to the CAN networks may control the diesel engine or the electrical drives if the vehicles are battery-powered. The range of vehicles using CAN includes agricultural and forestry vehicles as well as special vehicles for mining, aircraft towing, road construction, etc. In many of these vehicles the implements (add-on sub-systems such as harvester, cranes, etc.) are also connected to the CAN networks. Fork-lift and lift-trucks are also equipped with CAN-based networks for both drive-train ECUs and hydraulic components.

SPECIFICATIONS

◆ PC/104 Plus Interface
◆ 3 x 10/100Mbps Intel 82551 (PM-1055E-3P)
◆ 3 x Gigabit LAN Intel 82540 (PM-1055G-3P)
◆ 3 x RJ-45 connectors
◆ Supports Teaming function
◆ Power Consumption: 1.5A@3.3V
◆ Driver support: Window 98, SE, ME, 2000, NT, XP and Linux

Teaming Features:

Teaming Features include Failover protection, increased bandwidth through aggregation, and balancing of traffic among team members.
n Fault Tolerance
Uses one or more secondary adapters to take over for the primary adapter should the first adapter, its cabling or the link partner fail. Designed to ensure server availability to the network.
n Link Aggregation
The combining of multiple adapters into a single channel provides greater bandwidth to multiple destination adresses. This increase bandwidth to multiple destination addresses. ALB mode provides aggregation for transmission only while RLB and LA/FEC/GEC/3ad modes provide aggregation in both directions. FEC/GEC/LA/3ad modes require a matching aggregation capable switch, while ALB and RLB modes can be used with any switch.
n Load Balancing
The distribution of the transmission and reception load among the aggregated network adapters. An intelligent adaptive agent in the ANS driver repeatedly analyzes the traffic flow from the server and distributes the packets based on destination addresses. (In LA/FEC/GEC/3ad modes, the switch similarly provides load balancing on incoming packets.)

ORDERING INFORMATION

● **PM-1055E-3P** 3x10/100Mbps Intel 82551 LAN module
● **PM-1055G-3P** 3xGigabit Intel 82540 LAN module
(For optional 2 LAN port, please contact supplier)
Note: Extension only for one PM-1055X-3P, due to the specification of PC/104 Plus

ORDERING INFORMATION

● **PM-1002** PC/104 Plus Dual CAN & One LAN Module