CAN Communication Board

PISO-CAN400

Isolated 4-port CAN bus communication board

PISO-CAN400-D

PISO-CAN400-T

Features

- Four independent CAN bus 2.0A/2.0B communication ports
- Compatible with CAN specification 2.0 parts A and B
- On-board optical isolators protection
- Programmable transfer rate up to 1 Mbps.
- Jumper-selected 120Ω terminator resistor for each port
- Direct memory mapping to the CAN controllers
- 33MHz 32-bit 5V PCI bus (V2.1) plug and play

Functional Description

The CAN (Controller Area Network) is a serial communication network and efficiently supports distributed real-time control with a very high level of security. It is especially suited for networking "intelligent" devices, sensors, and actuators within a system or sub-system. In CAN networks, there is no addressing of subscribers or stations in the conventional sense, but the prioritized messages are transmitted instead. As a standalone CAN controller, PISO-CAN400 is an active CAN board with two and four independent CAN bus communication ports which is equipped with 5-pin screw terminal connector or 9-pin D-sub connector. It covers a wide range of CAN applications and is economic. Besides, PISO-CAN400 uses the new Phillips SJA1000T controller and 82C250/251 transceiver to provide bus arbitration and error detection with auto correction and re-transmission function. It can be installed in a 5V PCI slot and support truly "Plug & Play".

Applications

- DeviceNet, CANopen, CAN J1939, SDS (System Wide Network) protocol application
- CAN bus communication application
- Industry automation
- Semiconductor fabrication application
- Building automation
- Industrial machine control
- High-speed assembly application

Specifications

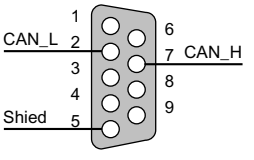
- CAN controller: Phillip SJA1000T
- CAN transceiver: Phillip 82C250/251
- Signal support: CAN_H, CAN_L
- 16 MHz CAN controller frequency
- Connector: 5-pin screw terminal connector or 9-pin D-sub connector
- Isolation voltage: 2500Vrms

General Specifications

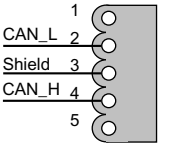
- Operating temperature: 0°C ~ 60°C
- Operating humidity: 10 ~ 90% non-condensing
- Storage temperature: -20 ~ 70°C
- Storage humidity: 5 ~ 95% non-condensing
- Dimensions:130 mm x 110 mm

Pin Assignment

9-pin D-sub connector



5-pin Screw Terminal connector



Ordering Information

PISO-CAN400-D: Isolated 4-port CAN bus communication board with 9-pin D-sub connector

PISO-CAN400-T: Isolated 4-port CAN bus communication board with 5-pin screw terminal connector