

CANBus Unit(CA-IS3050G)



Description

CAN Unit is an isolated controller area network (CAN) transceiver unit, which can be used to build a complex can communication network. The built-in DC-DC isolated power chip can isolate noise and interference and prevent damage to sensitive circuits.

The model of the isolated CAN transceiver is ca-is3050g, which can provide differential reception and differential transmission capabilities. The bus can support up to 110 nodes, and the signal transmission rate can reach 1Mbps. It has current limiting, over-voltage, grounding loss protection (– 40 V to 40 V) and thermal shutdown functions, which can prevent output short-circuit and meets the technical specifications of ISO11898-2 standard.

CAN is an ISO international standard serial communication protocol. CAN belongs to the field bus category. It is a kind of serial communication network which can effectively support distributed control or real-time control.

The distributed control system based on CAN bus adopts multi master competitive bus structure, which has the characteristics of multi master station operation, decentralized arbitration and broadcast communication.

It has obvious advantages in the following aspects: High speed low failure rate data communication between nodes in the network. When multiple nodes initiate communication at the same time, the one with low priority will avoid the one with high priority, which will not cause congestion to the communication line. The communication distance can reach 10km (the rate is lower than 5Kbps) and the rate can reach 1Mbps (communication distance is less than 40m).

Product Features

- Up to 1000Vrms isolation and withstand voltage
- Power light
- Built-in isolated DC-DC
- Signal rate up to 1Mbps
- Protection function: signal isolation, current limiting, over-voltage protection and thermal shutdown
- 2x LEGO compatible hole
- HY2.0 4P Interface

Include

- 1x CAN Unit
- 1x HY2.0 Cable(5CM)

Application

- CAN bus communication
- Industrial field control
- Security system

Specification

Resources	Parameter
Rated withstand voltage	1000V
Maximum rate	1Mbps

Resources	Parameter
Number of theoretical nodes	110
Low loop delay	-150ns
Common mode voltage	-12V ~ 12V
Protection Function	Current limiting, over voltage, main dynamic time-out function and signal isolation
Net Weight	12g
Gross Weight	25g
Product Size	65 x 24 x 8mm
Package Size	67 x 53 x 12mm
Case Material	Plastic (PC)