

Introduction

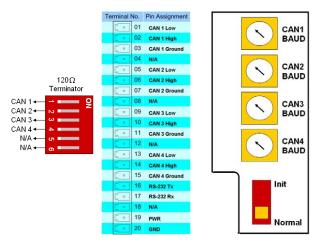
The I-2534 is one kind of CAN bus switch. There are four independent CAN channels which offer a flexible design of the start or tree network topology. This new topology could resolve the complex CAN bus application, like industrial machinery, building automation, vehicle automation, and etc. Furthermore the I-2534 integrates and exchanges data between different CAN network which has different baud rate. It helps users to extend the CAN network system. The I-2534 could increase the maximum CAN node count in a CAN network by splitting the CAN network into several subnets. In additional, the user-defined CAN baud rate and CAN filter configuration are also supported.

Hardware Specifications

High Performance Microcontroller
No
Watchdog IC
4 kV Contact for each channel
NXP TJA1042
4
ISO-11898-2, CAN 2.0A and CAN 2.0B
3-pin screwed terminal block with CAN_H, CAN_L, CAN_GND
5k, 10 k, 20 k, 33.3 k, 50 k, 62.5 k, 83.3 k, 125 k, 250 k, 500 k, 800 k, 1 M bps and user-defined
Selectable by rotary switch
3000 V _{DC} for DC-to-DC, 2500 Vrms for photo-couple
Selectable 120 Ω terminal resistor by DIP switch
Depend on baud rate (for example, max. 1000 m at 50 kbps)
Configurable by user
1 port (for configuration)
3-pin screwed terminal block (TxD, RxD, GND)
CAN status LED x 4 , Power LED x 1
Unregulated $+10 \sim +30 V_{DC}$
3W
DIN-Rail
Flame-Resistant plastic case
32.3 mm x 99 mm x 77.5 mm (W x L x H)
-25 ~ 75 °C
-30 ~ 80 °C
10 ~ 90% RH, non-condensing

Block Diagram

Pin Assignments

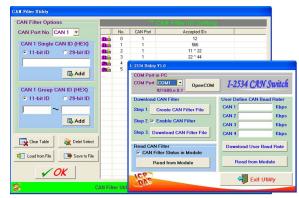


Application

CAN bus with Star Topology

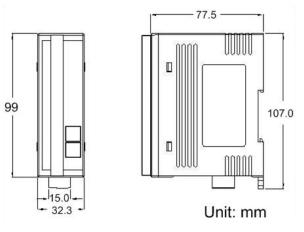
1 M 500k

🖿 Utility Features

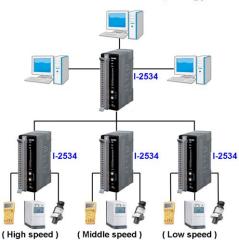


This utility configures the CAN filter and user-defined CAN baud rate. It can save the CAN filter configuration as file and would be import to another I-2534.

🖿 Dimensions (Units: mm)



CAN bus with Tree Topology



Ordering Information

I-2534 4-port Intelligent CAN bus Switch
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