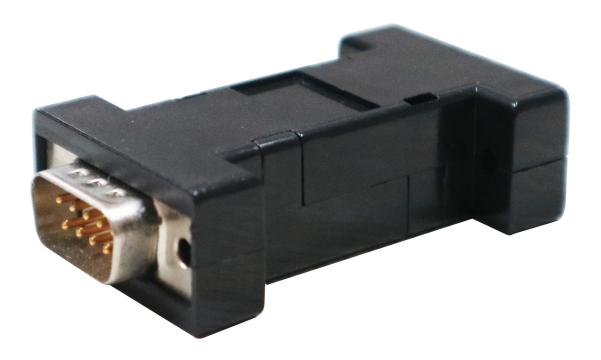
GCAN-404

Industrial single-wire CAN converter



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1 Introduction

1.1 Functional overview

The GCAN-404 converter establishes a connection between a High-speed CAN-Bus (ISO 11898-2) and a Single-wire CAN-Bus (SAE J2411). A High-speed CAN-Bus use two signal line, which are CAN_H and CAN_L. However, a Single-wire CAN-Bus only use one signal line.

One of the most important potential applications of GCAN-404 is a simple connection between a High-speed CAN-Bus(e.g. USBCAN-II Pro) and a Single-wire CAN-Bus. With this converter, equipment that used Single-wire CAN-Bus can connect to a High-speed CAN-Bus without changing the hardware structure, this makes multi-Bus interconnection very flexible, and extends the application scope of a High-speed CAN-Bus.

1.2 Properties at a glance

High-speed CAN-Bus supports CAN2.0A and CAN2.0B frame format, conforms to ISO/DIS 11898 standards

High-speed CAN-Bus and Single-wire CAN-Bus support the baud rate of 33.33K(Normal) and 83.33K(High-speed)

CAN-Bus interface with electrical isolation

CAN-Bus isolation module insulation voltage: DC 1500V

Working temperature range from -40 to +85°C

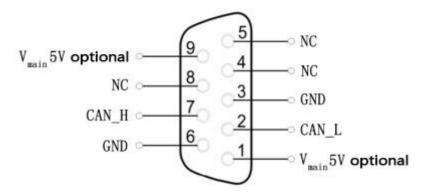
Size: (L)63mm * (W)34mm * (H)19mm

2. Device installation

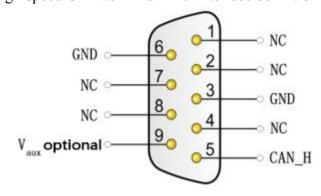
2.1 Exterior



2.2 Interface



High-speed CAN terminal DB9 interface definition (female)



Single-wire CAN terminal DB9 interface definition (male)

2.2.1 Power supply

GCAN-404 does not need to add the power supply.

2.2.2 High-speed CAN termination resistor

GCAN-404 does not add termination resistor. If you need, please add it by yourself.

2.2.3 Single wire CAN connected to GND

Single-wire CAN terminal GND pin must be grounded.

2.2.4 Single wire CAN termination resistor

Single-wire CAN does not need to connect termination resistor.

3. Instructions for use

3.1 Running mode

The GCAN-404 supports normal mode (33.33Kbit/s) and high speed mode (83.33Kbit/s). Both modes can be switched automatically.

3.2 CAN-Bus baud rate

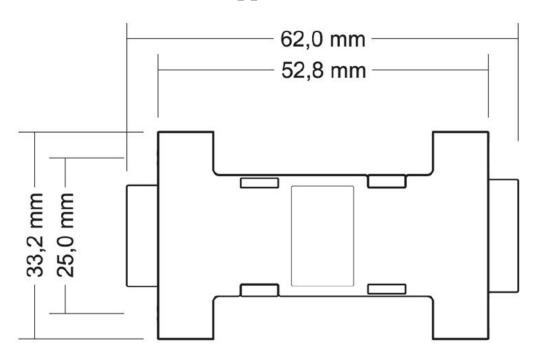
When the user uses GCAN-404, it is necessary to ensure that the baud rate of the High-speed CAN is consistent with that of the single-wire CAN. The most common single-wire CAN baud rate: 33.33Kbit/s, 83.33Kbit/s.



4. Technical specifications

High-speed CAN specification		
CAN standard	ISO 11898	
	CAN2.0A、CAN2.0B	
Connection method	DB9 female, 9pin, pin assignment conforms to CiA102	
	rule	
120 ohm resistance	Not integrated	
CAN baud rate	33.33Kbit/s、83.33Kbit/s	
Single-wire CAN specification		
CAN standard	SAE J2411	
Connection method	DB9 male, 9pin	
120 ohm resistance	Not integrated	
CAN baud rate	33.33Kbit/s、83.33Kbit/s	
Basic Information		
Dimensions	63mm*34mm*19mm	
Weight	26g	
Operating environment		
Operating temperature	-40°C~+85°C	
Working humidity	15%~90%RH, No condensation	
EMC	EN 55024:2011-09	
	EN 55022:2011-12	
Degree of protection	IP20	

Appendix





Sales and service

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