Chengdu Ebyte Electronic Technology Co.,Ltd

Wireless Modem

User Manual

EID101-B111



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Content

DISCLAIMER 2
1. PRODUCT INTRODUCTION 3
1.1 PRODUCT FEATURES 3
1.2 DIMENSIONS & INTERFACE DESCRIPTION 3
2. INSTRUCTIONS FOR USE 5
REVISION HISTORY 6

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1. Product Introduction

EID101-B111 is a DIN-rail mounted CANFD isolation repeater independently developed by Chengdu Yibait Electronics Technology Co., Ltd. This product operates on a wide DC voltage range of 8V to 28V, supports up to 5Mbps CANFD, is compatible with CAN 2.0, and incorporates a built-in 120Ω matching resistor.

1.1 Product Features

- Supports DC 8–28V wide voltage input with reverse polarity protection;
- Features indicator lights for device status display;
- Supports CANFD, compatible with CAN 2.0, operating at 5K–5Mbps;
- Built-in 120Ω matching resistor;
- Supports signal and power isolation;
- Industrial-grade design, operating temperature: -40°C to 85°C

1.2 Dimensions & Interface Description



	Pin	Instruction
1	VCC2	Power Supply 2 Positive (DC 8-28V) Note: Only one input can be active at a time for Power

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		Supply 1 and Power Supply 2.
2	GND2	Power Supply 2 Negative
3	CAN2_R	Enable CAN2's internal 120Ω terminating resistor after shorting CAN2_R and CAN2_H
4	CAN2_L	CAN2 Channel Bus Low
5	CAN2_G	CAN2 Channel Bus Ground
6	CAN2_H	CAN2 Channel Bus High
7	LED-CAN2	CAN2 Data Indicator: Flashes during data transmission/reception (dimmer during data reception)
8	LED-PWR	Power indicator: Steady on during normal operation
9	LED-CAN1	CAN1 data indicator: Flashes during data transmission/reception (dimmer during reception)
10	CAN1_H	CAN1 channel bus high
11	CAN1_G	CAN1 channel bus ground
12	CAN1_L	CAN1 channel bus low
13	CAN1_R	Enables CAN1's internal 120Ω matching resistor when CAN1_R and CAN1_H are shorted
14	GND1	Power 1 negative
15	VCC1	Power 1 positive (DC 8-28V)

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2. Instructions for Use

1. Connecting CAN1 Device: Connect CAN_H of User Device 1 to CAN1_H; connect CAN_L to CAN1_L. To enable the built-in 120Ω matching resistor on the CAN1 link, simply short-circuit CAN1_H to CAN1_R.
2. Connecting CAN2 Device: Connect CAN_H from User Device 2 to CAN2_H; connect CAN_L to CAN2_L. To utilize the built-in 120Ω matching resistor on the CAN1 link, short-circuit CAN2_H to CAN2_R to enable it.
3. Powering the device: Select either Power Supply 1 or Power Supply 2, using a wide voltage range of 8V to 28V DC. After power-up, observe the device indicator lights. If the PWR light remains steadily lit, the device is functioning normally. (Note: Only one power input (Power Supply 1 or Power Supply 2) can be active at a time.)

Note: During normal communication, the transmitter's corresponding indicator light has higher brightness, while the receiver's corresponding indicator light has lower brightness.

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Revision history

Versions	Revision Date	Revision Notes	Maintaining people
1.0	2025-12-29	Initial Version	ZYD

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