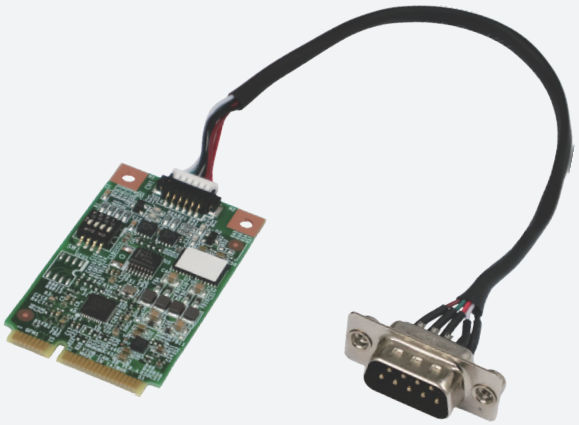
VTK-CAN-08



Main Features

- Dual CAN FD SIC
- Mini PCIe form factor for easy & quick installation
- Compliant with ISO 11898-1 and ISO 11898-2
- Support bit rate up to 5kbps~8Mbps
- Wide-range operating temperature
- ESD Protection

Product Overview

The VTK-CAN-08 is a dual high-speed CAN FD SIC module. With Mini PCIe form factor design, it is easy and quick installation on any device to communicate with the vehicle ECU. It complies with standard CAN 2.0A and CAN 2.0B according to ISO 11898-1, ISO 11898-2 with bit rate up to 8Mbit/s. To satisfy server vehicles environments, the VTK-CAN-08 can be operated on a wide-range operating temperature from -40°C to 85°C. Besides, it is built-in ESD level ± 8KV/15KV (contact/air) according to IEC 61000-4-2 to protect the system.

Specifications

Form Factor

- Full-size Mini PCIe (PCIe) form factor

I/O Connector

- DB9 connector for 2 x CAN FD SIC

Dual CAN FD Port

- Compliant with ISO 11898-2, ISO 11898-1 (11-bit and 29-bit ID)
- Speed: 5kbps~8Mbps
- Dual 120 Ohm line termination, enabled/disabled by dip switch

Mechanical

- Dimensions: 51mm (L) x 30mm (W) (2.01" x 1.18")
- Weight: 13g

Environment

- Operating temperature: -40°C~85°C
- Storage temperature: -50°C~90°C
- Related humidity (with system chassis): 5%~90%

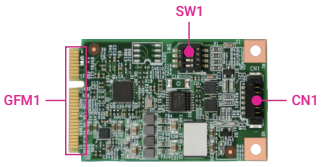
Electrical Protection

- IEC 61000-4-2 Electrostatic Discharge (ESD): ± 8KV/15KV (contact/air)

Software

- VIOB-CAN-08 SDK

Pin Definition



CAN Bus Connector
Connector type: 1x6 6-pin header
Connector location: CN1



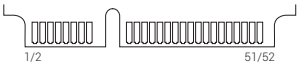
Pin	Definition	Pin	Definition
1	CAN1_L	2	CAN_GND
3	CAN1_H	4	CAN2_L
5	CAN_GND	6	CAN2_H

CAN1 & CAN2 Termination Resistor Selection
Connector type: DIP switch
Connector location: SW1



Pin	Definition
1 On 2 On	CAN1 has terminator (default)
1 Off 2 Off	CAN1 has no terminator
3 On 4 On	CAN2 has terminator (default)
3 Off 4 Off	CAN2 has no terminator

Mini PCIe
Connector location: GFM1



Pin	Definition	Pin	Definition
1	NC	2	3V3
3	NC	4	GND
5	NC	6	NC
7	CN_CLK_REQ#	8	NC
9	GND	10	NC
11	CN_PCIECLK_N	12	NC
13	CN_PCIECLK_P	14	NC
15	GND	16	NC
17	NC	18	GND
19	NC	20	NC
21	GND	22	CN_PCIRST#
23	CN_PCIERX_N	24	3V3
25	CN_PCIERX_P	26	GND

Pin	Definition	Pin	Definition
27	GND	28	NC
29	GND	30	NC
31	CN_PCIETX_N	32	NC
33	CN_PCIETX_P	34	GND
35	GND	36	NC
37	GND	38	NC
39	3V3	40	GND
41	3V3	42	NC
43	GND	44	NC
45	NC	46	NC
47	NC	48	NC
49	NC	50	GND
51	NC	52	3V3

Ordering Information

- **VTK-CAN-08 (P/N: 10VK00CAN10X0)**

  2 x CAN FD SIC, full-size Mini PCIe form factor, PCIe interface, DB9 cable