GW2208+

CAN FD/LIN gateway device

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Classic Application:

- Network Integration with Protocol Bridging
- ECU Diagnostics with Advanced Calibration
- Comprehensive Data Logging and Analysis

Feature Overview

The GW2208+ is powerful gateway device capable of converting CAN/LIN bus data to Ethernet, supporting both online and offline modes (*offline gateway functionality to be supported in future updates.). It integrates advanced CAN/CAN FD and LIN bus technologies, supporting a wide range of communication protocols and flexible data processing capabilities. GW2208+ supports conversion between CAN and CAN FD, but also enables CAN-to-LIN and LIN-to-LIN communication, This allows GW2208+ to facilitate seamless communication across different bus protocols, greatly simplifying integration in complex networked systems.

GW2208+ is equipped with 8 CAN/CAN FD channels (125 kbps ~ 1 Mbps for CAN, up to 8 Mbps for CAN FD), 2 software-configurable LIN master/slave channels (0 ~ 20 kbps), and multiple digital I/O interfaces for versatile signal measurement and integration.

GW2208+ connects to a PC via Ethernet, ensuring high-speed data transmission and avoiding communication bottlenecks when processing large volumes of bus data. When paired with the powerful TSMaster software, the GW2208+ enables users to load and utilize database files in DBC, LDF, XML, and ARXML formats. It supports comprehensive monitoring, analysis, and simulation of bus traffic, and offers advanced functionalities such as UDS diagnostics, ECU flashing, CCP/XCP calibration.

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Characteristics

- µs (microsecond) level hardware message timestamps to meet advanced requirements
- Driver-free design for Windows
- 8 CAN/CAN FD channels, and 2 LIN channels
- Supports 2 digital output (DO) and 4 digital input (DI)
- Enables conversion between CAN, CAN FD, and LIN protocols
- Configurable CAN bit rate from 125 kbps to 1 Mbps; CAN FD supports up to 8 Mbps
- LIN protocol compliant with LIN 1.3/2.0/2.1/J2602, supporting 0~20 kbps baud rate
- LIN master/slave node configuration via software
- Software-configurable 120Ω termination resistors for CAN channels
- Support Self-ACK mode for CAN
- Supports message filtering for CAN/CAN FD/LIN frames
- Bus relay and expansion capabilities
- Supports BLF and ASC data recording formats, with online/offline playback functionality
- Example project and API interfaces provided, simplifying secondary development
- Customizable conversion rules with persistent storage; offline gateway function (*to be supported in future updates)

Specification

Channel	8 x CAN FD / 2 x LIN / 4 x DI / 2 x DO
PC Interface	RJ45 Ethernet
CAN Interface	Pluggable Terminal Block
LIN Interface	Pluggable Terminal Block
I/O Interface	Pluggable Terminal Block
Driver	Driver-free for Windows
CAN	Supports CAN 2.0 A and B protocols, compliant with the ISO 11898 1 standard, with baud rates from 125 Kbps to 1 Mbps
CAN FD	Supports CAN FD that complies with both ISO and non ISO standards, with baud rates from 125 Kbps to 8 Mbps
LIN	Supports LIN 1.3/2.0/2.1/J2602, with baud rates from 0 to 20 Kbps
FlexRay	FlexRay channel (A and B)
Cold Start	Supported
Timestamp Accuracy	1 µs, hardware message timestamp
Terminal Resistor	120Ω software-configurable termination for CAN channels
Isolation	DC 2500V isolation per CAN channel

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Power Supply	DC power supply
Power Consumption	5 W
Enclosure Material	Metal
Dimension	Approx. 105 x 83.70 x 45 mm
Weight	Approx. 300 g (net)/470 g (gross)
Operating Temperature	-40°C ~ 80°C
Operating Humidity	10% ~ 90% RH (non-condensing)
Operating Environment	Avoid corrosive gases

Ordering Information

Product name	Model	Feature description
Network Device	GW2208+	CAN FD/LIN gateway device

Shipping list

- GW2208+ device
- Category 6 Gigabit Ethernet cable

Pin definition

10-pin pluggable connector for CAN FD 1-4

PIN	Definition	PIN	Definition
PIN 1	CAN 4_Low	PIN 2	CAN 4_High
PIN 3	CAN 3_Low	PIN 4	CAN 3_High
PIN 5	GND	PIN 6	Shield
PIN 7	CAN 2_Low	PIN 8	CAN 2_High
PIN 9	CAN 1_Low	PIN 10	CAN 1_High

10-pin pluggable connector for CAN FD 5-8

PIN	Definition	PIN	Definition
PIN 1	CAN 8_Low	PIN 2	CAN 8_High
PIN 3	CAN 7_Low	PIN 4	CAN 7_High
PIN 5	CGND	PIN 6	Shield
PIN 7	CAN 6_Low	PIN 8	CAN 6_High
PIN 9	CAN 5_Low	PIN 10	CAN 5_High

12-pin pluggable connector (LIN, DIDO)

PIN	Definition	PIN	Definition
PIN 1	DO2	PIN 2	DO 1
PIN 3	COM_DO 2	PIN 4	COM_DO 1
PIN 5	DI 3	PIN 6	DI 4
PIN 7	DI 1	PIN 8	DI 2
PIN 9	LIN 1	PIN 10	LIN 2
PIN 11	CGND	PIN 12	EXT_VCC

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