

## GW2112 Pro

### 2 CAN FD gateways/routers



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#### Classic Application:

- Connect CAN bus devices to a CAN FD network
- Connect CAN FD bus devices to a CAN network
- Connect two segments with different baud rates of CAN/CAN FD
- Act as a device isolating and performing data filtering and conversion between two segments
- Act as a relay to increase node load and extend communication distance

### Feature Overview

GW2112 Pro is a high-performance CAN/CANFD intelligent router. It integrates two configurable CAN/CANFD interfaces, supporting both ISO standard CANFD and non-ISO CANFD standards. The behavior of GW2112 Pro and the data routing between the two CAN FD channels can be configured flexibly. For example, it can convert CAN to CAN FD or integrate CAN FD applications into existing CAN 2.0 networks.

Each interface is equipped with an independent 2500VDC electrical isolation protection circuit, which helps prevent damage to the interface card due to ground loop currents, enhancing the reliability of the system for use in harsh environments.

### Characteristics

- Two completely electrically isolated CAN(FD) channels, configurable as CAN or CAN FD
- Support for CAN 2.0A, 2.0B protocols, compliant with ISO 11898-1 standard
- Support for both ISO standard CAN FD and non-ISO CAN FD standards
- Software-configurable message forwarding relationships, including ID conversion and various data mappings
- Two LED indicators for displaying status information.
- DC 2500V isolation for CAN channels
- Independent software-configurable baud rates on both ends, ranging from 125k to 8Mbps
- When used as a relay, CAN/FD single-frame standard frame rate can reach up to 10,000 frames per second
- Pro version supports DBC signal mapping, mathematical operations, and advanced features like configurable encryption algorithms

## Specification

Channel number	2 x CAN FD
PC	High-speed USB2.0 interface
CAN	It supports CAN2.0A and B protocols, conforms to the ISO11898-1 specification, and has a baud rate of 125Kbps-1Mbps
CAN FD	Support ISO and non-ISO standard CAN FD, baud rate 125Kbps-8Mbps
Termination resistors	Built-in 120 Ohm terminal resistor is configurable by software
Packet forwarding capability	10,000 frames/sec (per channel)
Packet forwarding mode	Store-and-forward
Forwarding delay	<0.1ms
Electric isolation	CAN channel DC2500V isolation
Power supply	DC 8-36V
Size	110X70X36mm
Working temperature	-40°C~70°C

## Ordering Information

Product name	Model	Feature description
Bus network device	GW2112 Pro	2 CAN FD gateways

## Shipping list · GW2112 Pro equipment