CANnect

HIGH PERFORMANCE GATEWAY FOR CAN AND LIN

CANWAY's CANnect is a gateway for CAN and LIN busses. Following the original and popular CANnect 1's principles, the new model is a complete redesign based on state-of-the art technology. Typical applications are for example stimulating different test objects in testbenches or integrating new ECUs and sensors in an existing car's network. Also, the CANnect provides extensive capabilities for generating signals and messages including bus protocols in order to simulate ECU prototypes.

Through an intuitive and user-friendly PC software, configuring the CANnect for any desired applications has become even easier. Defining routings for messages and signals is just a matter of drag-and-drop. Each message or signal may be output on any bus, may be used for calculations or may trigger other messages. Similarly, a message can be filtered on its way from one to another bus. Calculation rules for different signals can be specified using a flexible formula editor.

After a configuration has been downloaded to the CANnect, the device operates stand alone and in real-time. And it has still got resources left for implementing custom features for your particular application!

FEATURES

- **Supported bus systems: 6 x CAN, 2 x LIN, Ethernet**
- **Mapping/routing on bus-, message- and signal-level between all buses**
- **Integrated restbus simulation, event- triggered gating or generation of messages**
- **Simulation of ECUs and sensors**
- **Extensive capabilities for manipulating signals using the formula editor**
- **Support of XCP (Extended Calibration Protocol)**
- **Stand alone operation in real-time once the device is configured**
- **Intuitive configuration software**
- **Robust housing**

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CAN-INTERFACE

Quantity	6, galvanic isolated up to 1 kV
Type	4 ISO 11898-2 (high-speed) 2 software-configurable for ISO 11898-2 (high-speed) or ISO 11898-3 (low-speed) CAN protocol versions 2.0 A and 2.0 B
Bitrate	High-speed up to 1 Mbit/s*, low-speed up to 125 kbit/s* , software-configurable
Termination	120 Ohm, software-configurable

LIN-INTERFACE

Quantity	2, software-configurable for master or slave mode
Type	LIN spezification up to 2.2
Bitrate	Up to 20 kbit/s, software-configurable

ETHERNET-INTERFACE

Quantity	1
Type	IEEE 802.3, up to 100 Mbit/s*

DIGITAL INPUTS

Quantity	8
Input voltage range	0-24 VDC
High level	> 5 VDC

POWER SUPPLY

Supply voltage	9-36 VDC
Current consumption	700 mA at 12 VDC

ENVIRONMENTAL CONDITIONS

Temperature range	-20 °C up to +60 °C
Protection class	IP40

GENERAL INFORMATION

Housing	Robust aluminium housing, (DIN rail mounting/protective cover optional)
Dimensions (LxBxH)	140 mm x 87 mm x 27,5 mm
LEDs	Quantity 12: Power (1), Active (1), LIN master or slave mode (2), high-speed low-speed(2), CAN termination (6)
Connectors	50 pin D-Sub, connector cable optional, costumer specific cables on request

CONFIGURATION SOFTWARE

Type	Configuration-software CW-921 for x64 operation systems, Intuitive user interface for quick and clear configuration of the gateway (stand-alone)
Features	Mapping/Routing of busses, messages and signals by drag & drop between all bus systems, Manipulation of all signals using the formular editor, Restbus simulation (Bus protection, alive counter, checksum calculation), Read and write of XCP messages, dynamic sending/suppression of messages, Support of different bus description files (DBC, LDF, Fibex and ARXML)

*Specification of the physical bus data rate. The total processable data throughput may be lower depending on the number of channels, messages and signals used, the bus load and the complexity of the configured data processing.

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