

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!

MAIN FEATURES

- Supported bus systems: 6x CAN, 2x LIN, Ethernet
- Mapping/routing on bus-, message- and signal-level between all busses
- 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 and user-friendly PC software for creating and editing configurations

CAN interface

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|------------------|--|
| Number of busses | 6, galvanic isolated up to 1 kV |
| Type | 4 CAN ISO 11898-2 (high-speed) 2 CAN software-configurable for ISO 11898-2 (high-speed) or ISO 11898-3 (low-speed) CAN protocol versions 2.0 A and 2.0 B, support for SAE J1939 (29-bit-identifiers) |
| Bitrate | High-speed up to 1 Mbit/s, low-speed up to 125 kbits/s, software-configurable |
| Termination | Software-configurable independently for each bus |

LIN interface

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|------------------|---|
| Number of busses | 2, software-configurable for master or slave mode |
| Type | LIN specification up to 2.2 |
| Bitrate | Up to 20 kbit/s |

Ethernet interface

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|---------|------------------|
| Number | 1 |
| Type | IEEE 802.3 |
| Bitrate | Up to 100 Mbit/s |

Digital inputs

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|---------------------|------------|
| Number of inputs | 8 |
| Input voltage range | 0 - 24 VDC |
| High level | > 5 VDC |

Power supply and temperature range

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|-------------------|-------------------------|
| Supply voltage | 9 - 36 VDC |
| Power consumption | 8 W |
| Temperature range | -20 °C to 60 °C |
| Wake-up | KL 15 or CAN (optional) |

Status LEDs

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|----------------|--|
| Number of LEDs | 12: power (1), active (1), LIN master or slave mode (2), high-speed/low-speed (2), CAN termination (6) |
|----------------|--|

Mechanical properties

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|--------------------|---|
| Housing | Robust aluminum case |
| Dimensions | 27,5 mm x 87 mm x 140 mm (height x width x length) |
| Connectors | 50 pol. D-Sub, connector cable available as an accessory, customer-specific cables on request |
| Additional options | DIN hat rail mounting on request, protective sleeve on request |

Configuration software

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|----------|--|
| Type | Runs on x32 and x64 operation systems Intuitive user-interface for creating and editing CANnect II configurations |
| Features | Mapping of busses, messages and signals by drag & drop between all bus systems Manipulation of all signals using the formula editor Restbus simulation (alive-counters and CRC sums for data integrity checks) Reading and writing of XCP messages Defining conditions for dynamic transmission/filtering of messages (optional) Support for CANdb and LIN description files (DBC and LDF, Fibex optional) Integrated editor for bus description files (optional) Feature-rich and straight-forward configuration software for Microsoft Windows. |

www.canway.de · mail@canway.de · Tel.: +49 2532 95602-0

CANWAY TECHNOLOGY GMBH · Graf-Zeppelin-Ring 13 · 48346 Ostbevern · Germany

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