

## Product Information

# IGW/400-CAN: Wireless Device Server

Modular Wireless Device Server for processing CAN data



## Description

The IGW/400-CAN is a universal CAN system that can be used in all IEEE 802.11b/g-Wi-Fi compliant networks for communication between CAN systems and PC, PDA or similar. To enable access to a local network or the Internet, the IGW/400-CAN integrates a fully developed TCP/IP network stack. The IGW/400-CAN has two independent CAN channels, two COM interfaces and a GPIO interface switchable between I<sup>2</sup>C, analog inputs or digital I/Os in order to be as flexible as possible to the special needs of the user. With its open programming interface that provides comprehensive functions to send and receive CAN messages and for configuration, the IGW/400-CAN can easily be adapted to customer-specific requirements. This is particularly important when accessing remote CAN system from PCs or notebooks.

Thanks to its 32-bit ARM7TDMI microcontroller, 256KB Flash and 16KB RAM, the system can efficiently connect to the CAN network. Data can be transferred with 11-bit and 29-bit identifiers, as the system supports all popular baud rates including high-speed (ISO/IS 11898-2) and low-speed (ISO/IS 11898-3) mode.

Flexible connection types are available for the I/O signals. A 14-pin connector, the so-called Environment Interface, serves as a universal connection. In addition to the connection type to CAN systems, the Environment Interface with its combined I<sup>2</sup>C/analog inputs/PIO/capture und COM port offers additional comprehensive options for attaching peripheral components.

Power supply can range from 6 up to 30 VDC. The robust metal housing (131 x 70 x 26 mm) is also optionally available for stationary use with DIN rail or wall mounting, making the system suitable for use in both automotive and industry environments.

## IGW/400-CAN features at a glance:

- Environment Interface with two independent CAN channels
- IEEE 801.11b-compatible Wireless LAN interface
- Ethernet LAN interface 10/100Mbit/s on board
- 2 x RS232 interface
- COM/ISP interface
- Switchable I<sup>2</sup>C/analog inputs/PIO/capture interface
- Efficient development environment

## Technical Data IGW/400-CAN

### Wireless Interface

Wireless LAN	802.11b/g
Connection type	Antenna
Supported protocols	WEF, TCP/IP, UDP/IP, AutoIP, ARP, ICMP, SNMP, DHCP, TFTP, Telnet, HTTP

### Environment Interface

Environment Interface	Active via 32-bit ARM7TDMI microcontroller
Environment I/O	RS232/ 2 x CAN/ 2 x GPIO
Connection type	14-pin plug connector
RS232	max. 230.400 bps, Signals: TxD, RxD
CAN	2 x 10 kbps – 1 Mbps; Signals: CAN_H, CAN_L
GPIO	I <sup>2</sup> C/ 2 x analog inputs /2 x PIO/ capture, jumper configurable

### Further Interfaces

RS232	max. 921.600 kbps; Signals: DCD, RxD, TxD, RTS, CTS, DTR
Connection type	Sub-D, 9-pin
ISP	Signals: RXD, TXD

Ethernet	10/100Mbps, automatic detection
Connection type	RJ-45

### Other

LED Indicators	1 x supply voltage, 1 x wireless activity
Power input	6..30 V DC
Power consumption	max. 3 W
Protection degree	IP20
Operating temperature	-20°C..70°C
Dimensions (L x W x H)	70 x 26 x 131 mm (without antenna)
Mounting	Desktop, wall- or DIN rail

### Main Functionality

Wireless Device Server with CAN and integrated TCP/IP network stack

### Delivery

IGW/SK4-CAN	IGW/400-CAN, Antenna, Connector with adapter cable for power- and RS232 Sub-D, Wireless LAN-USB adapter, Power supply, Null modem cable, Screwdriver, Starter Kit CD-ROM with configuration tools, development environment for C and documentation.
IGW/400-CAN	IGW/400-CAN

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