PCAN-Wireless Gateway DR

CAN to WLAN-Gateway in DIN Rail Plastic Casing

The PCAN-Wireless Gateway DR allows the connection of different CAN busses over IP networks. CAN frames are wrapped in TCP or UDP message packets and then forwarded via the IP net from one device to another. The PCAN-Wireless Gateway DR provides one WLAN connection and two High-speed CAN interfaces. With its DIN rail casing and the support of the extended temperature range, the module is suitable for use in an industrial environment.

The configuration of the device is done via a comfortable web interface. Besides a variety of status information, settings for the device itself, for the communication interfaces, and for message routing are provided.

Specifications

- ARM9 Freescale iMX257 with 16 kByte Level 1 Cache and 128 kByte internal SRAM
- 256 MByte NAND Flash and 64 MByte DDR2 RAM
- Linux operating system (version 2.6.31)
- RS-232 connector for serial data transfer (reserved for future use)
- Connections for CAN, RS-232, and power supply via 4-pole screw-terminal strips (Phoenix)
- Reboot and reset of the device to factory defaults with a reset button
- Configuration of the network interfaces and the message forwarding through a web interface
- Plastic casing (width: 22.5 mm) for mounting on a DIN rail (DIN EN 60715 TH35)
- LEDs for device status, WLAN, and power supply
- Voltage supply from 8 to 30 V
- Extended operating temperature range from -40 to 85 °C (-40 to 185 °F)

Wireless properties

- WLAN IEEE 802.11 b/g
- 2.4 GHz dipole antenna, connection via RP-SMA aerial socket
- Data transmission using TCP or UDP
- Bluetooth 2.1 + EDR, Class 1 (reserved for future use)

CAN properties

- Two High-speed CAN channels (ISO 11898-2)
- Bit rates from 5 kbit/s up to 1 Mbit/s
- NXP PCA82C251 CAN transceiver
- Galvanic isolation of the CAN channels up to 500 V against each other, against RS-232 and the power supply
- Compliant with CAN specifications 2.0A and 2.0B