# CAN-I/O-HATrix




Programming platform and features:
- IIEC 61131-3 compatible: C, Blockly, ST, FBD
- Syntax highlighting & auto-completion
- Cloud compilation (platform-independent, fast)

Simulation and verification:
- Online mode: live monitoring with process values
- Offline mode: simulation without hardware
- Support for retain & persistent variables

System architecture:
- Standalone or distributed control systems
- Fieldbus configurations for Raw-CAN, CANopen, J1939

Visualization: Freely designable display platform
Integrated help system with examples
User-friendly interface for quick onboarding
Access via web browser
HATrix runs on nearly all Hatox CAN-I/O controllers
Plug variations: 24 (Deutsch), 39 or 62 pins (TE)
Built-in possibilities of the plug: on the front or back of the housing

Technical data is subject to change without notice

## General technical data

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|---|---|
| Temperature range | –40° to +80°C |
| Type of protection | IP 65 (higher on request) |
| Housing | PA with 2 integrated Deutsch-connectors with 12 pins each, aluminum profile with PA end caps with 39 or 62 pin TE-connectors |
| Interface | CAN-Bus |
| Protocol | compatible with CAN-specification 2.OB, ISO 11898-1, CANopen, CANKingdom, J1939 |
| Data rate | up to 1 Mbit/s |
| Other interfaces | RS 232, RS 485, Ethernet, WLAN, Bluetooth LE |
| Technology | transceiver (bidirektional, half-duplex) |
| Frequency | 433,075–434,775 MHz and 868 MHz / Europe, 902–928MHz / USA & Canada, 2,4 GHz worldwide |
| Output Power | adjustable 1-100 mW (depending on frequency range) |
| Modulation | 434 / 868 MHz => 2 FSK, 915 MHz => 2 GFSK, 2.4 GHz => OQPSK |
| Transmission method | DSSS and Narrow Band FSB for Europe, FHSS (Frequency hopping) for USA & Canada |
| Distance | 50–300 m / 160–1000 ft (depending on technology, frequency and environment) |
| Supply voltage | 8…36 V DC (automotive battery) |
| Power consumption | 430 mA @ 12 V DC |
| Weight | depending on type |
| Size | depending on type |

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