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

General technical data

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