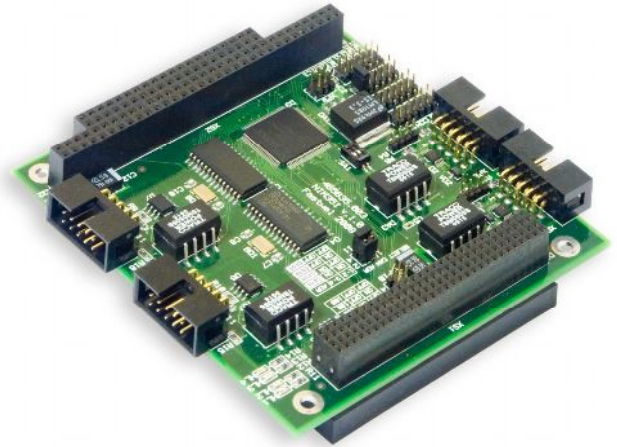


NIM351 Interface Module

NIM351 is an interface module designed for use in embedded systems with CAN and RS485/422 interfaces.



SPECIFICATIONS

■ Communication Channels

■ Serial ports

- Number of ports: 2;
- Interfaces: RS422/RS485;
- Controller: Exar XR16C2850;
- Data exchange rate: up to 3.686 Mbit/s;
- Automatic transmitters control in RS485 mode;
- Half-duplex with or without echo modes;
- Supported interrupt levels: IRQ5, IRQ6, IRQ7, IRQ9, IRQ10, IRQ11;
- Base addresses: 100H, 180H, 200H, 280H;
- Connection: IDC10 header;
- Isolation: 500 V.

■ CAN channels

- Number of channels: 2;
- Controller: Philips SJA 1000T;
- Protocol: 2.0A (standard-frame, 11-bit ID) and 2.0B (extended-frame, 29-bit ID);
- Transmission rate: up to 1 Mbit/s;
- Supported interrupt levels: IRQ5, IRQ6, IRQ7, IRQ9, IRQ10, IRQ11;
- Base addresses: CE00H, CF00H, DE00H, DF00H;
- Connection: directly via IDC10 header or via ACS00005 adapter cable with D-Sub connector; pin assignments in compliance with CiA recommendation DS 102-1;
- Isolation: 500 V.

■ PC/104-Plus Interface

- Complies to PC/104 Spec. v.2.0
- The module utilizes 8-bit ISA bus. PCI connector is installed for compatibility, only its power contacts are used.

■ Control and Indication

- Two switching fields are used for setting base addresses of CAN and COM-ports;
- Green LEDs indicate the CAN channels receive mode;
- Yellow LEDs indicate the CAN channels transmission mode;
- One switching field is used for selection of interrupt level for each of CAN and RS485/422 channels.

■ Power

- Power voltage: +5V \pm 5% via PC/104-Plus connectors;
- Power consumption:
 - NIM351-01 – 0.3 A;
 - NIM351-02 – 0.2 A;
 - NIM351-03 – 0.2 A.

■ OS Compatibility

- FreeDOS;
- QNX 6.4x;
- Windows XPe;
- Linux 2.6.x.

■ Operating Temperature: –40°C to +85°C

■ Protective Coating Option

■ MTBF: 700,000 hours

■ Dimensions: 98 × 95.9 × 23.7 mm

■ Weight: Not more than 120 g

NIM351: ORDERING INFORMATION

Variants available:

Variant	2×CAN	2×RS485/RS422	Protective Coating
NIM351-01	+	+	–
NIM351-02	+	–	–
NIM351-03	–	+	–
NIM351-01 \Coated	+	+	+
NIM351-02 \Coated	+	–	+
NIM351-03 \Coated	–	+	+

DELIVERY CHECKLIST

- NIM351 interface module
- Mounting accessories
- Antistatic bag
- Package