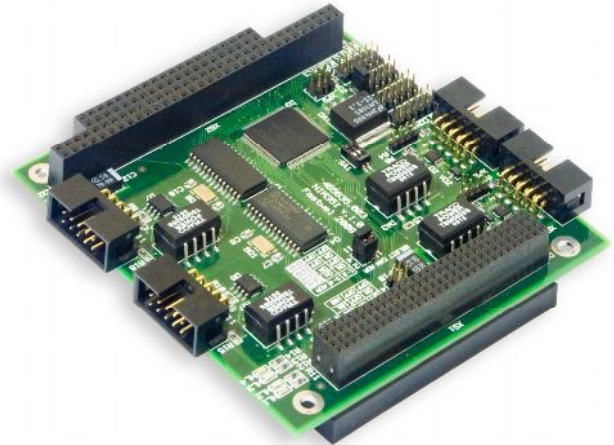# Fastwel

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 addesses 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 ± 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 6.3x;
  - Windows XPe;
  - Linux 2.6.x.

- **Operating Temperature:** –40°C to +85°C

- **Protective Coating Option**

- **MTBF:** 700000 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
- CD with documentation and software
- Mounting accessories
- Antistatic bag
- Package