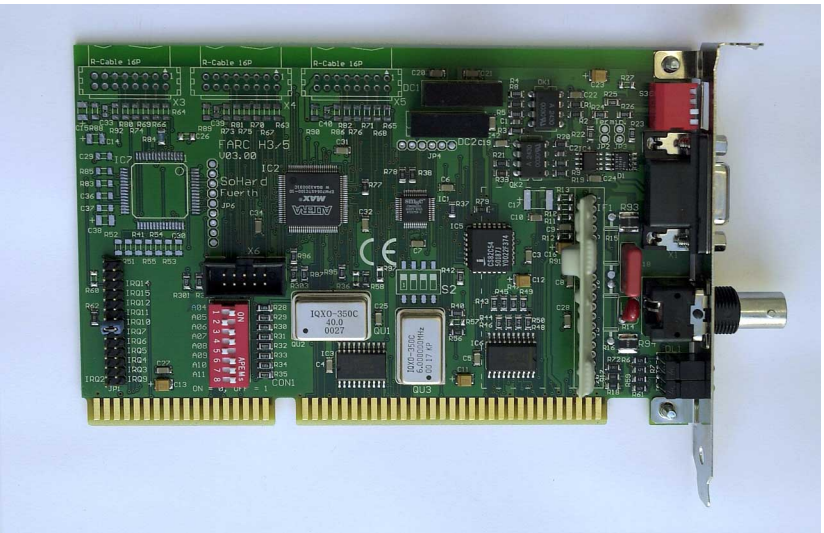
SH FARC E3

ARCNET ISA card



1. Field of Application

The fieldbus ARCNET bus card SH FARC E3 sets up the connection to the ARCNET fieldbus in industrial PCs or master computers. Design in conformity with EMC ensures the application even in a rough industrial environment.

By means of the available drivers, the card can be integrated into your application quickly and at low costs via the available interfaces COAX and RS-485. The service LEDs ensure the fast monitoring and diagnosis of the card in operation.

2. Functionality

The card stands out due to the following features:

2.1 ARCNET Controller

On the card there is the ARCNET-Controller COM22022 by SMSC, which is fully compatible to the COM20020. Bit rates of up to 10 Mbps as well as further setting possibilities are supported.

2.2 ISA Bus Interface

The 16 Bit-ISA bus card facilitates the use of interrupts of 2 to15. Thereby only 16 I/O addresses are occupied with the basic address being optionally configurable.

2.3. Fieldbus Connection

The COAX or the RS-485 interface can be used alternatively (both on-board). With the appropriate component equipping both are suitable for Bit rates of up to 10 Mbps. By means of a protective logic the COAX transceiver is protected from being destroyed in operation with low transmission rates or in the back-plane mode.

2.4 Timer Module (optional)

The 82C54 timer module by Intel consists of three optionally usable timers that offer a variety of applications within control and regulation tasks. It facilitates, e.g. to provide a received package with a real time mark.

3. Performance Features

- ARCNET controller COM20022 (fully compatible to COM20020)
- 16 Bit ISA card for the utilization of “upper” interrupts
- Electrically isolated COAX or RS-485 interface, transmission rates of up to 10 Mbps
  - protection against addressing the HITs in the back-plane mode or at incorrect speed (COAX)
  - protection of the RS-485 interface from overvoltage
- Three-part timer module (optional)
- LEDs for indicating transmitting and receiving activities, accesses of the PC to the card as well as interface operating mode
- Possibility of activating the termination for RS-485 via switch
- CE mark (industrial environment)

4. Specifications

- **connections:** COAX via BNC-socket, RS-485 via 9 pin SUB D female
- **baud rates RS-485:** 156,25/312,5/625 kbps; 1,25/2,5/5/10 Mbps
- **baud rates COAX:** up to 10 Mbps when being equipped with hybrid component SH HIT 10
- **I/O area:** occupied by 16 addresses in the I/O area, base address adjustable
- **interrupts:** 9(2), 3-7, 10-12, 14, 15
- **power supply:** +5 V, <1 A
- **compatibility:** ANSI/ATA 878.1
- **temperature range operation:** 0°C to +55°C
- **temperature range storage:** -20°C to +85°C
- **weight:** 200 g, packing included

5. Order information

Order designations:

SH FARC E3
2,5 Mbps COAX, Timer, 10 Mbps RS-485

SH FARC E3 K
2,5 Mbps COAX

SH FARC E3 K10
5/10 Mbps COAX

SH FARC E3 10
Timer, 10 Mbps RS-485, 5/10 Mbps COAX

6. Contact adress

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Manuals, drivers and further informations are available at **http://support.sohard.de**

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