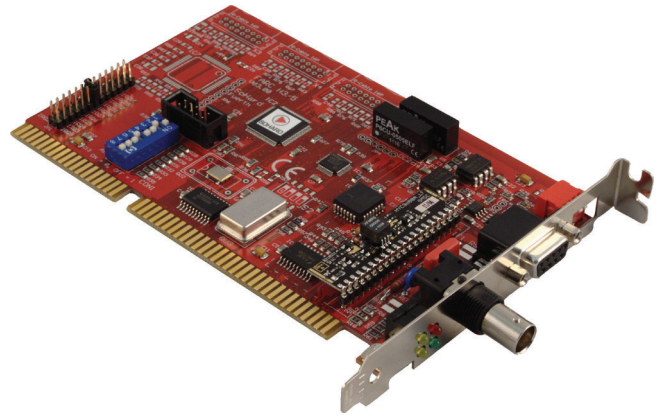


## SH ARC-ISA

### ARCNET ISA card



#### Scope of application

The ARCNET card SH ARC-ISA serves as an interface to the field bus ARCNET in industrial PCs or main terminals. The card offers a BNC and a D-sub connector for sine dipulse and RS-485 (EIA-485) transmission via coaxial and twisted pair cables respectively to ensure a maximum of flexibility.

Owing to SOHARD's standardized driver interface the SH ARC-ISA may substitute any other SOHARD ARCNET card without major effort.

#### Design & Functionality

The card features the following components:

##### ARCNET controller

The card uses the ARCNET controller COM20022 from SMSC which is fully compatible with the COM20020. It supports bit rates up to 10 Mbit/s as well as additional settings.

##### ISA bus interface

The 16 bit ISA bus card allows the use of interrupts between 2 and 15. Only 16 I/O addresses will be occupied, their start address being fully adjustable.

##### Fieldbus connection

You may use the integrated coaxial or RS-485 (EIA-485) interface at your choice. RS-485 allows for bit rates up to 10 Mbit/s, the coaxial interface for a fixed rate of 2.5 Mbit/s. A protective logic prevents the coaxial transceiver from being destroyed due to low data rates or usage of the backplane mode.

##### Timer module (optional)

The 82C54 timer module from Intel offers three disposable timers which can be used for control and monitoring tasks. This module allows, e.g., to mark a received package with a real-time time-stamp.

#### Key features

Electrically isolated BNC and D-sub sockets on-board
16 bit ISA bus card
ARCNET controller COM20022
Termination of RS-485 interface switchable by means of DIP switch
Protecting HITs (sine dipulse transceivers) against incorrect mode or speed
Bit rate 156 kbit/s to 10 Mbit/s (sine dipulse 2.5 Mbit/s only)
Requiring 16 I/O addresses; base address selectable by means of DIP switch
Interrupt selectable by means of jumper
Triple timer module (optional)

#### Specification

<b>Compatibility</b>	ANSI/ATA 878.1, CE for industrial environment
<b>Power requirements</b>	±5 V from PC, 5 W max
<b>Temperature range, operation</b>	0°C to +55°C
<b>Temperature range, storage</b>	-20°C to +85°C
<b>Dimensions (w/h/d) in mm, w/o conn.</b>	156/21/129
<b>Weight</b>	max 200 g packing included

#### Drivers

<b>Windows</b>	RAW ARCNET and NDIS drivers
<b>Linux</b>	community driver

Detailed overview of drivers and supported OS can be found on [www.sohard.de](http://www.sohard.de)



**Order Information**

Product name	Bit rate	Signal	Socket	Cable type
SH ARC-ISA-K	2.5 Mbit/s	sine dipulse	BNC	coaxial cable RG-62
SH ARC-ISA-KR	2.5 Mbit/s or 156.25 kbit/s – 10 Mbit/s	sine dipulse or RS-485/EIA-485	BNC or DE-9/D-sub	coaxial cable RG-62 or twisted pair cable

User manual and CD with drivers are included with "SH ARC-ISA".