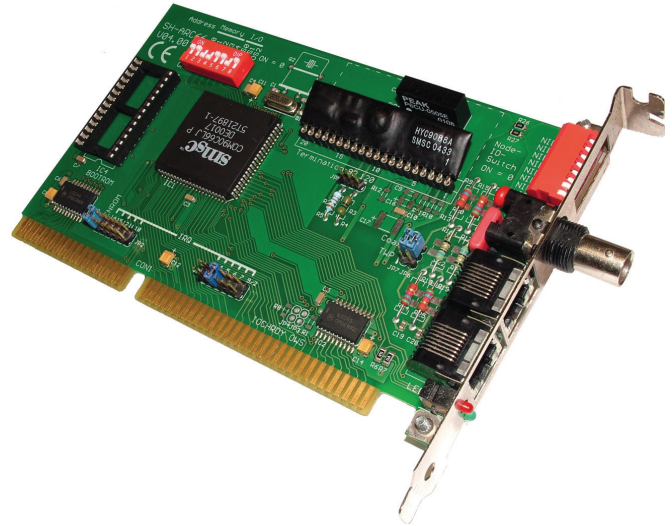


SH ARC-66

ISA ARCNET card with COM90C66



Scope of application

The SOHARD ARCNET card SH ARC-66 has been designed for the use in industrial PCs. The card offers two interfaces, coax and TWP, to ensure a maximum of flexibility. With the attached drivers, the card can be integrated into the application fast and at moderate costs.

Design & Functionality

The card features the following components:

ARCNET Controller

The card uses the ARCNET controller COM90C66 by SMSC, which works with a fixed data rate of 2.5 Mbit/s. The node number can be set at convenience by means of a DIP switch which is accessible from the outside.

ISA Bus Interface

The card needs 16 I/O addresses whose base address can be set. The Dual Ported RAM can be mapped into the memory at different base addresses.

Fieldbus Connection

The fieldbus may be connected to the card by means of a coax or TWP plug. The card has an internal termination jumper. Therefore the card can be used as in a bus as well as in a star topology. Service LEDs allow the monitoring of the ARCNET and ISA bus activity.

Boot ROM

The SH ARC-66 can be equipped with a boot ROM. Thus it is possible to boot the PC via the ARCNET network.

Key features

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|--|
| 16 bit ISA card |
| ARCNET controller COM90C66LJ by SMSC |
| Coax BNC socket (93 ohm) |
| 2 x TWP RJ45 socket (100-150 ohm) |
| ARCNET and ISA bus activity on LED display |
| 16 addresses in I/O range, base 0x260, 0x290, 0x2e0, 0x2f0, 0x300, 0x350, 0x380, 0x3e0 |
| 2 kB, address selectable from C000 (hex) to D800 (hex) in 2-kilobyte steps |
| Interrupt may be chosen between IRQ 2/9, 3, 4, 5, 10, 11, 12, 14, 15 |

Specification

| | |
|--|---------------------------|
| Compatibility | ANSI/ATA 878.1, CE |
| Power consumption | < 4W |
| Temperature range, operation | 0°C to +55°C |
| Temperature range, storage | -20°C to +85°C |
| Dimensions (w/h/d) in mm, without conn. | 121/21/129 |
| Weight | max 300 g incl. packaging |

Drivers

| | |
|------------------------------------|---|
| Universal RAW driver (UARC) | Windows 98/ME/NT/2000 Windows XP/2003/2008/Vista ¹⁾ |
| NDIS | Windows 95/98/NT/2000 ¹⁾ |
| Other drivers | Linux ¹⁾ , MS-DOS ²⁾ |

¹⁾ Detailed overview of drivers and supported OS can be found on www.sohard.de

²⁾ Under MS-DOS card will be accessed directly via I/O registers, i.e. driver is not required.



Order Information

| Order name | Bit rate | Short description |
|-------------------|-----------------|---|
| SH ARC-66 | 2.5 Mbit/s | ISA ARCNET card with COM90C66 ¹⁾ |

User manual and CD with drivers are included with "SH ARC-66".

¹⁾ The controller COM90C66 is not (as of 2009) available as a RoHS conforming part. SOHARD Embedded Systems assures that all other components, the board and all other materials applied for the production of the SH ARC-66 are RoHS compliant. Thus the COM90C66 has to be disposed of separately.