

SH ARC-PCI104

ARCNET card for PCI-104



Application & Functionality

The SH ARC-PCI104 is an ARCNET card for use in *PC/104-Plus* or PCI-104 systems.

Contrary to the SH ARC-PC104 it is connected to the host via PCI. Featuring a 32 bit data bus (instead of 16 bit) it enables higher transfer rates. Due to the form factor it can easily replace the SH ARC-PC104 in *PC/104-Plus* systems without mechanical changes.

The ARCNET controller used is COM20022. The card is suited for the 3.3V and 5V signal environment on the PCI bus. The card features a 32-Bit data bus and thus, enables high transfer rates. A shrouded header allows to connect SOHARD ARCNET interface modules (coaxial, fiber optic, twisted pair or RS485).

As the SH ARC-PCI104 covers an elevated temperature range it is well suited for usage in devices lacking forced cooling as e.g. the Siemens SIMATIC Microbox 427B.

Interface module

(see also product datasheet 'Interface modules')

- Connection from an external interface module possible
- All modules feature a service LED
- Receiving activity signaled. Module connected via flat band cable.
- CE conformance for use in industrial environments

Key features

32 bit bus, PCI 2.2 compatible
Automatic adaptation to 3.3V and 5V signal environment
Mapping of the COM20022 registers into the I/O and Memory space of the PC
Fast controller access via Advanced-Memory Mode
Coaxial transceiver protected against invalid bit rate and mode
LEDs indicating ARCNET transceiver activity and host access
Elevated temperature range
Interface for SH interface modules type "PC104"

Specification

Compatibility	ANSI/ATA 878.1, PCI 2.2, PCI-104 Specification Version 1.0, CE
Power consumption	< 4W
Temperature range, operation	0°C to +70°C
Temperature range, storage	-20°C to +85°C
Dimensions (w/h/d), in mm	90/96/11 (without connectors) according to PCI-104 specification
Weight	max 250g 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⁾

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

Order Information

Product name	Description
SH ARC-PCI104	PCI-104 ARCNET card with one port for an interface module type „PCMCIA“ ¹⁾

¹⁾ Interface module must be ordered separately.

User manual und CD with drivers are included with “SH ARC-PCI104”.

Interface module for SH ARC-PCI104

Product name	Bit rate	Signal	Socket	Cable type
SH KOAX-PCI104	2.5 Mbit/s	sine dipulse	BNC	coaxial cable RG-62
SH LWLSMA-PCI104	156.25 kbit/s – 2.5 Mbit/s	optical	FSMA	multi-mode fibers
SH LWLST-PCI104	156.25 kbit/s – 2.5 Mbit/s	optical	ST/BFOC	multi-mode fibers
SH LWLTOS-PCI104	156.25 kbit/s – 2.5 Mbit/s	optical	TODX296/TOSLINK	multi-mode fibers
SH RS485-PCI104	156.25 kbit/s – 10 Mbit/s	RS-485/EIA-485	DE-9/D-Sub	twisted pair cable
SH RS485AC-PCI104	2.5–10 Mbit/s	RS-485/EIA-485 ²⁾	RJ45	twisted pair cable
SH TWP-PCI104	2.5 Mbit/s	sine dipulse	RJ45	twisted pair cable

²⁾ RS-485/EIA-485 via signal transformer (AC coupled).

Please feel free to contact us for customized interface modules.