

SH ARC-PCMCIA

ARCNET PCMCIA card



Scope of application

The SH ARC-PCMCIA is a PCMCIA ARCNET adapter particularly for use in laptops in industrial environments. The device is available with various ARCNET interface modules for connection to ARCNET networks with different signaling methods (sine dipulse, RS-485/EIA-485, RS485AC and optical) via coaxial, twisted pair or fiber optic cables.

When you change to a PC with PCMCIA interface the card can immediately substitute other SOHARD ARCNET network adapters, if your application is using the SOHARD RAW ARCNET interface and the corresponding driver. Your application needs not to be changed.

Design & Functionality

The SH ARC-PCMCIA is a type I card conforming to the PCMCIA Standard 2.1.

Field bus connection

ARCNET interface modules (to be ordered separately) are connected to the SH ARC-PCMCIA by a shielded, integrated cable. The interface modules are housed in solid metal casings. A protective logic prevents the coaxial transceiver from being destroyed due to incorrect bit rates or mode.

Two LEDs at the ARCNET interface module indicate ARCNET activity and host access.

For technical information on the SOHARD ARCNET interface modules usable with the card, please have a look at our product datasheet "ARCNET Interface Modules".

Key features

16 bit PCMCIA card allowing for 8 or 16 bit access
ARCNET controller COM20022
Bit rates 156 kbit/s to 10 Mbit/s
Mapping of the COM20022 registers into the I/O and memory space of the PC
Fast controller access via Advanced-Memory Mode
PCMCIA Type I card, 3.3 mm high

Specification

Compatibility	PCMCIA spec. V2.1, ANSI/ATA 878.1, CE for industrial environment
Power requirements	5 V from PC, 1.5 W max. w/o interface module
Temperature range, operation	0°C to + 55°C
Temperature range, storage	- 20°C to + 85°C
Dimensions (w/h/d), in mm	54/3.3/86 (acc. to PCMCIA spec. V2.1)
Weight	max 200 g (incl. Packaging)

Drivers

Universal RAW driver (UARC)	Windows 98/ME/NT/2000 Windows XP/2003/2008/Vista/7 ¹⁾
NDIS	Windows 95/98/NT/2000
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-PCMCIA	PCMCIA 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-PCMCIA”.

Interface module for SH ARC-PCMCIA

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

Please feel free to contact as for customized interface modules.