



SERCOS - PC-INTERFACE, DRIVER, MONITOR

- CIF 50-SCM with PCI Interface
as intelligent SERCOS card for 8 drives
- CIF 50-SCEB PCI Interface
CIF 60-SCEB PCMCIA-Karte
CIF 104-SCEB PC/104-Format
as passive SERCOS card for
Master- and Slave-mode
- DRV-SC
Master- and Slave-driver for SERCON816
- MON-SC
Monitor with CIF 60-SCEB



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SERCOS

* INTELLIGENT SERCOS INTERFACE MASTER CIF 50-SCM

CIF 50-SCM is a complete ready-to-use plug-in module providing the SERCOS interface hardware for digital intelligent drives on PC-PCI systems. It handles all communication and synchronization tasks between the drives and the controller. The field-proven CIF 50-SCM offers the fastest, most economical and efficient solution for the connection of digital intelligent drives to a PC.

The application specific superior controller interchanges its data with CIF 50-SCM via a Dual-port memory. CIF 50-SCM independently performs initialization, communication and diagnostics between controller and drives using its own microprocessor. The controller has access to all data to be exchanged with.

A few basic inputs such as telegram type, number of drives or cycle time only have to be set once. The exchange of cyclic data such as command values, actual values and control or status signals is activated via transmission of a synchronization signal per each communication cycle between CIF 50-SCM and the controller. Within a specific time frame in the synchronization signal, the controller cyclically determines new command values, loads them into the Dual-port memory and likewise, reads the actual values out. Thus the controller has access to all data to be exchanged with the drive as if it were an internal control register. The synchronization signal can be generated by either the controller or by CIF 50-SCM.

■ SERCOS MONITOR

provides a powerful and mobile analyzer for efficient observation and evaluation of data transmissions in SERCOS systems. The SERCOS Monitor offers an intuitive and clear operating surface with user-friendly dialog boxes. In the different windows the selected desired and actual values, diagnostic and parameter data as well as limiting values and configuration data can be shown.

■ PASSIVE SERCOS INTERFACE

The PCI -, PCMCIA- or PC/104 cards contain the component SERCON 816 and can operate as Master or Slave.

■ SERCOS DRIVER

This is used for the control of the passive SERCOS interface cards.

TECHNICAL DATA

Communication Interface	
Dual-port memory	
8 KByte	CIF xx-SCEB
4 KByte	CIF xx-SCM
Interrupt	
plug and play	CIF 50-SCEB
	CIF 50-SCM
	CIF 60-SCEB
3-5, 7, 9-12, 15	CIF 104-SCEB-Rx
Interface	IEC 61491
	DIN EN 61491
Transmission rate	2 MBaud, 4 MBaud
Controller	SERCON816
Interface	
LWL	
TTL	only CIF 104-SCEB-RT
Connector	
F-SMA	
10 pin post square	CIF 104 SCEB-RT
Display	
ERR	CIF xx-SCEB
DL1, DL2, DL3, DL4	CIF xx-SCM
Diagnostic interface	
RS232C non-isolated	only CIF 50-SCM
Operating voltage	
5 V ± 5% / 400 mA	CIF xx-SCEB
5 V ± 5% / 250 mA	CIF xx-SCM
Operating temperature	
0 °C - 55 °C	
Dimensions (L x W x H)	
152,5 x 107 x 18,5 mm	CIF 50-SCM
131 x 102 x 18,5 mm	CIF 50-SCEB
86 x 54 x 5 mm	CIF 60-SCEB
90 x 96 x 25 mm	CIF 104-SCEB-RO
90 x 96 x 25 mm	CIF 104-SCEB-RT
90 x 25 x 20 mm	AIF 104-SC-RT

SERCOS Monitor	
Operating system	Windows 95/98 Windows NT 4.0
Interface	PCMCIA card, Type II with external F-SMA- fiber optic connection
Transmission rate	2 MBit/s and 4 MBit/s
Display	Common parameters Drive specific parameters Real time data in a chart display Service channel data Commands, Parameter and Telegram data

Driver software	
Number of Drives	8 per SERCON816
Function	Driving the SERCOS interface controller SERCON816 Initialization of the registers and memories of SECON816 Read and write of the service channel Setting of parameters and cyclic data processing

PRODUKT OVERVIEW

Article	Description
CIF 50-SCM	Communication Interface PCI SERCOS Master
CIF 50-SCEB	Communication Interface PCI SERCOS passive
CIF 60-SCEB	Communication Interface PCMCIA SERCOS passive
CIF 104-SCEB-RO	Communication Interface PC/104 SERCOS passive, fiber optic, connector right
CIF 104-SCEB-RT	Communication Interface PC/104 SERCOS passive, TTL-signal, connector right
AIF 104-SC-RT	Assembly Interface PC/104 SERCOS connector right, related to CIF 104-SCEB-RT
MON-SC	Monitor for Windows® 95/98/NT
DRV-SC	Driver software for SERCOS applications