

Teleservice -  
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# TELESERVICE

SSW7-TS  
SSW7-TS with Modem  
NetLink  
Modems

# Teleservice with the SSW7-TS



SSW7-TS

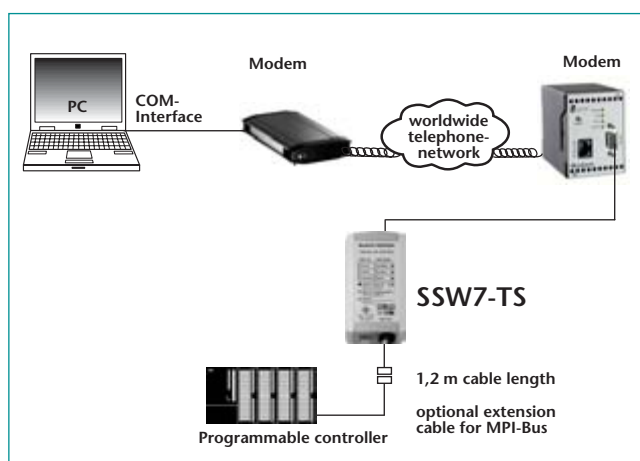
The SSW7-TS permits teleservice of a system via the telephone line. Commercially available modems can be used for this task.

The SSW7-TS has automatic baudrate detection at the RS232 interface with which it can adapt itself to the PC or the modem (between 9.6 and 115 Kbaud). The MPI interface operates at 187.5 Kbit/s or with 19.2 Kbit/s.

The PC must be installed with a teleservice module for the programming software, so that the SSW7-TS can be parameterized if necessary, and the modem connection maintained. Without modems or the teleservice module, the SSW7-TS can be operated at the machine as a SSW7.

The voltage supply for the SSW7-TS is taken from the CPU via the MPI-bus. With an optional 24 V connection it can be operated anywhere else in the system.

We supply the SSW7-TS with an additional programming interface on the connector including a switchable terminating resistor.



Application for SSW7-TS

## Technical Data

SSW7-TS	
Supply voltage	+24 V – 25 % from PLC or extern
Current consumption	approx. 35 mA
<b>MPI-interface</b>	
Type	RS485
Transmission rate	19,2 or 187,5 KBit/s
Cable connector	SUB-D 9-way with PG-interface and terminating resistor
<b>Communication interface</b>	
Type	RS232
Transmission type	serial asynchronous
Transmission rate	9,6 ...115 Kbaud
Parity	odd
Data format	8 Bit
Protocols	PC <-> S7
Connection	via modem or local connector, SUB-D 9-way

## Ordering Data

	Order-No.
MPI-Adapter SSW7-TS	700-751-8VK11

# SSW7-TS with modem



SSW7-TS with modem

With the SSW7-TS with modem, teleservice of a system can be performed via the MPI-bus.

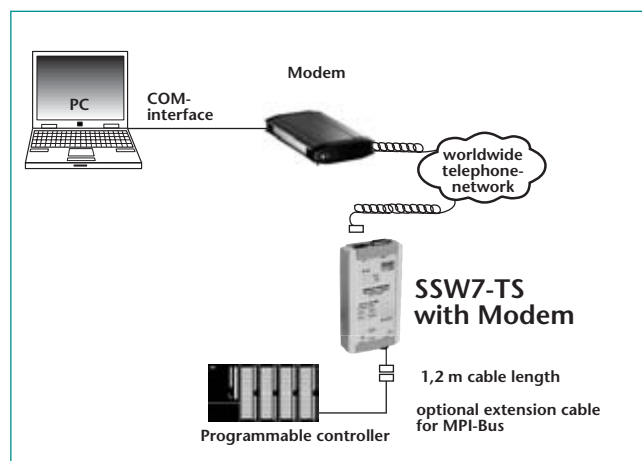
An analog 56K modem prepared for worldwide use, is integrated into the housing of the SSW7-TS. TAE and RJ11 cables are included in the scope of supply.

The 9-way SUB-D connector can be connected for parameterization or for in-situ use as a PC adapter. The "Int./Ext." switch, switches between the internal modem and the RS232 interface.

The SSW7-TS with modem receives its power from the CPU via the MPI cable. If 24 V are not available at the point of connection or if several MPI adapters are connected to a CPU at the same time, 24 V can be supplied from an external source.

The SSW7-TS with modem can also be provided with a new operating system via a modem link. That enables functional expansion of an adapter already installed in the system. An adapter for DIN rail is also supplied.

ISDN-Version in development.



Application for SSW7-TS with Modem

## Technical Data

SSW7-TS with modem	
Supply voltage	+24 V – 25 % from PLC or extern
Current consumption	approx. 90 mA
<b>MPI-interface</b>	
Type	RS485
Transmission rate	19,2 or 187,5 KBit/s
Cable connector	SUB-D 9-way with PG-interface and terminating resistor
<b>Communication interface</b>	
Type	RS232
Transmission type	2-wire dial-up, analog serial asynchronous
Transmission rate	9,6 ...115 Kbaud
Parity	-
Data format	8 bit
Protocols	PC <-> S7 via modem or local connector, SUB-D 9-way and RJ11
Connection	

## Ordering Data

	Order-No.
MPI-Adapter SSW7-TS with Modem	700-751-8MD21

# Modems for teleservice



PC type modem

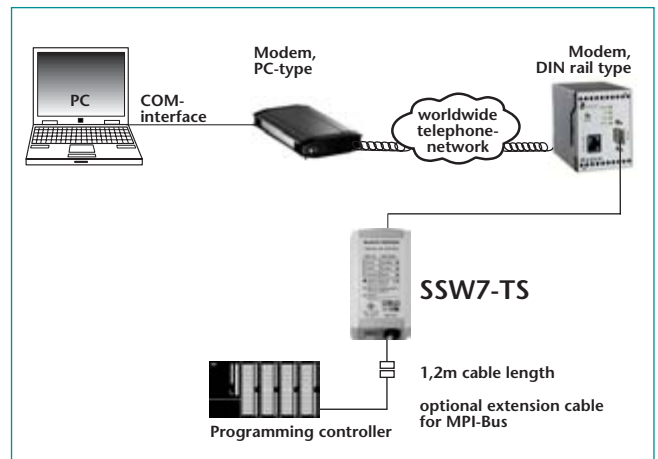


DIN rail type modem

With the SSW7-TS it is possible to service a plant remotely via the phone line. Commercial type modems can be used for that purpose. Systeme Helmholtz GmbH offers modems in DIN rail and PC versions. The modems are available both for analog and for ISDN phone connections. Suitable phone cables are included.

The DIN rail modem can be operated at a voltage of 10 to 80 V. The PC type modem is supplied with a 230 V connector PSU.

The DIN rail modem is prepared for worldwide use. It contains two alarm inputs and two switching outputs. With the alarm inputs, the modem can send messages via link, as a fax, or as an SMS.



Application for SSW7-TS

## Ordering Data

	Order-No.
Modem, PC-version, analog	700-751-MDM02
Modem, DIN rail type, analog <sup>1)</sup>	700-751-HSM11
Modem, PC-type, ISDN	700-751-MDM04
Modem, DIN rail type, ISDN <sup>1)</sup>	700-751-HSM02
<b>Starter kit 1</b> (SSW7-TS + 1 modem PC-type, analog+1 DIN rail modem, analog)	700-751-TSP01
<b>Starter kit 2</b> (SSW7-TS + 1 DIN rail modem, analog)	700-751-TSP02

<sup>1)</sup>Export restriction for: IR; CU; LB; MZ; KP; SY; IQ; LY

## Technical Data

Design	PC, analog	DIN rail	PC, ISDN	DIN rail, ISDN
Degree of protection for housing	IP 20	housing IP 40/ clamps IP 20	IP 20	housing IP 40/ clamps IP 20
Dimension (L x W x H mm)	71 x 128 x 22	55 x 110 x 75	71 x 128 x 22	55 x 110 x 75
Ambient temp.	0...+55 C	0...+55 C	0...+55 C	0...+55 C
Air humidity	0-95% non condensing	0-95% non condensing	0-95% non condensing	0-95% non condensing
Supply voltage	DC 8-10 V via supplied plug-in power supply	DC 10-80 V	DC 8-10 V via supplied plug-in power supply	DC 10-80 V
Power consumption	max. 2 W	approx. 2,5 W	max. 1 W	approx. 0,5 W
Interface	RS232 9-way	RS232 9-way	RS232 9-way	RS232 9-way
Interface-speed	300-115.200 bit/s	300-115.200 bit/s	300-230.400 bit/s	300-230.400 bit/s
Network interface	analog phone network RJ11 female	analog phone network via screw terminals or RJ45 female	ISDN via RJ45 or Screw terminals	ISDN, RJ45
Line requirements	2-wire dial up	2-wire dial-up	ISDN So	ISDN So
Software update	yes	yes	yes	yes
Watchdog	no	yes	yes	yes
Reset-key	no	yes	no	yes
Status display	2 LEDs (Power and OFF HOOK)	4 LEDs (Power, OH, DCD, RX/TX)	8 LEDs	4 LEDs (Power, OH, DCD, RX/TX)
Electrical isolation	to telephone	to telephone	to telephone	to telephone
Alarminput	-	2	-	2
Switching output	-	2 relays	-	2 relays

# New modems



GSM-modem



56K-modem "small"

The modems of Systeme Helmholtz GmbH are available for analog, ISDN, and GSM telephone connections. The devices are supplied with the necessary phone cable.

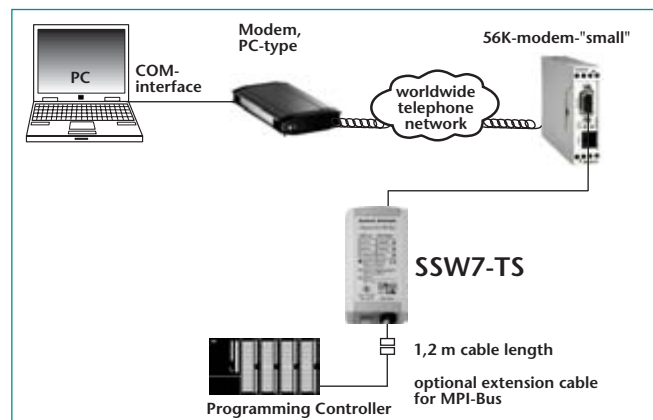
The modems for DIN rail mounting are powered with 10 to 80 V and are prepared for worldwide use. The necessary regional settings are easy to make with the included software.

The DIN rail modems from Systeme Helmholtz GmbH also feature alarm inputs with which alarms can be sent by data link, fax, or SMS.

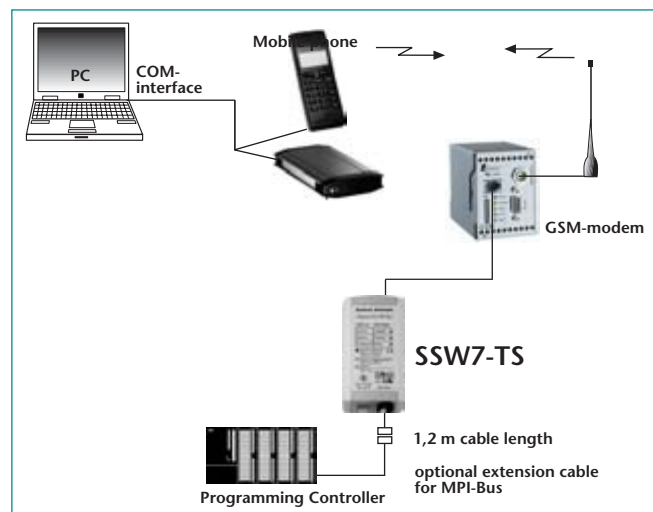
**New:** The slimline DIN rail modem 56K "small" provides a low-cost alternative for data transmission. It's slim design qualifies it as the "space saving" communication solution for your cabinet, also prepared for worldwide use. (But without alarm inputs and switching outputs).  
Power supply 24 V.

## Technical Data

Design	56K "small"	GSM-modem
Degree of protection for housing	housing IP 40/ clamps IP 20	housing IP 40/ clamps IP 20
Dimension (L x W x H mm)	23 x 110 x 75	55 x 110 x 75
Ambient temp.	0...+55 C	0...+55 C
Air humidity	0-95%	0-95%
	non condensing	non condensing
Supply voltage	DC 12-24 V	DC 10-80 V
Power consumption	ca. 1,6 W	max. 2,1 W
Interface	RS232	RS232
	9-way	9-way
Interface-speed	300-115.200 Bit/s	300-115.200 Bit/s
Network interface	analog phone network RJ12 female	FME- antenna socket
Line requirements	2-wire dial-up	Dualband GSM: Class 4 (2W @ 900MHz), Class 1 (1W @ 1.800MHz)
Software update	yes	yes
Watchdog	no	yes
Reset-key	no	yes
Status display	2 LEDs (Power Rx/Tx & OH/OCD)	5 LEDs (Power, Connect, Status, Signal, Rx/Tx)
Alarminput	-	2
Switching output	-	2 relays



Application for the 56K-Modem



Application for the GSM-modem

## Ordering Data

	Order-No.
GSM-modem	700-751-GSM02
56K-modem "small"	700-751-HSM21

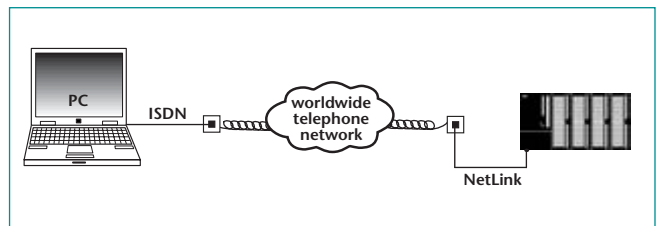
# NetLink



NetLink, Ethernet-Gateway for MPI/PROFIBUS

The NetLink is plugged straight into the S7 controller. At the controller end, the NetLink permits the full transmission rate of 12 Mbps. The device detects the network transmission rate of 10 or 100 Mbps automatically. The entire electronics of the NetLink are accommodated in a Profibus connector housing where a network cable is connected. Communication is performed via the TCP/IP protocol.

For the connection between S7-controller and PC, the NetLink must be connected with a switch or hub via the standard Ethernet interface. If the NetLink shall be directly connected to a PC or Notebook, a crossover cable must be used. Remote servicing is also possible via Internet and Intranet or via a direct phone line using a dial-up router. With coding techniques like VPN, the Remote serviceline can be protected against foreign access. The Helmholz NetLink is available in two versions - without and with the S7 driver for the original S7 software from Siemens. If you want to use the NetLink with the S7 programming software from Siemens, you will require the version with the S7 driver. The Helmholz S7 OPC Server supports both versions of the NetLink. If only the S7 communication of PC applications is required via the S7-OPC server, the lowest-cost version without the S7 driver is sufficient.



Application for NetLink

## Technical Data

	NetLink
Dimensions (L x W x H mm)	65 x 48 x 16
Weight	approx. 150g (incl. cable and connector)
<b>Power supply</b>	
Voltage	DC 24 V
Current consumption	70 mA
<b>Ethernet-Connection</b>	
Standard	10 Base-T 100 Base-TX
Connector	RJ45 PLUG
Transmission rate	autodetection
<b>MPI</b>	
Transmission rate	max. 12 MBit/s
Data link	FDL-frames
Operating temperature	0 C...50 C
Indicators	2 LEDs communication status
Degree of protection	IP 20

## Ordering Data

	Order-No.
NetLink with S7-Switch	700-880-MPI01
NetLink without S7-Switch (with DLL)	700-880-MPI10
Crossover-adapter	700-880-CROSS

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- I would like an appointment.  
 I require a demonstration unit.  
 Please send me your offer for \_\_\_\_\_ (quantity) \_\_\_\_\_ (produkt name).  
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