

S7- TCP/IP

Ethernet CP for the Siemens S7-400®

INAT S7-TCP/IP is the high performance Ethernet interface for Siemens PLCs of the series 400.

As Ethernet fieldbus control , S7-TCP/IP establishes the communication bridge to the I/O level. In addition to TCP/IP, ISO (H1) and ISO on TCP (RFC1006), the intelligent CP supports the Modbus on TCP protocol.

Technical Data

- **Serial interface**
1 x MPI
- **Ethernet interfaces**
1 x TP (RJ45), 10 Mbps
1 x AUI, 10 Mbps
- **Supported CPU types**
CPU 412-1, CPU 413-1, CPU 413-2,
CPU 414-1, CPU 414-2 with 128K,
CPU 414-2 with 384K, CPU 416-1,
CPU 416-2 with 0,8M, CPU 416-2 with 1,6M,
CPU 417 standard
- **Communication protocols**
S7 functions, S5-AP Header,
Send / Receive Direct,
Fetch Active, Write Active,
Fetch Passive, Write Passive
- **Ethernet protocols**
TCP/IP, UDP, ISO (H1), ISO on TCP (RFC1006),
Modbus on TCP, PLC Header,
DNS, SNMP services according to MIB II
- **Performance**
> 200 frames / second in fetch mode
Throughput of user data > 50 Kbps
Maximum of 124 connections
- **Dimensions**
290 x 210 x 25 [mm]
Weight 1000g
Required space: 1 slot



S7-TCP/IP
Ethernet CP for the S7-400®

**Now with
Modbus on TCP!**

Technical Data (Continuation)

- **LEDs on the front panel**
Connection state (Conn, Tx, Rx)
Data transfer (Data in, Data out)
Synchronisation (Sync),
Parametrisation connection (Para),
Program access (PG), MPI connection (MPI),
Link control (Link)
- **Operating conditions**
Operating temperature 0-55°C
Degree of protection IP20
- **Electrical data**
Power supply at 5 V maximum 700mA

Applications

- Ethernet interface for Simatic® S7-400®
- Remote maintenance of S7-400® via WAN and LAN
- Programming the S7-400® via WAN and LAN
- Communications with Siemens S7 and S5 PLCs
- Spontaneous data traffic with fetch on event mode
- Communications with PLCs of the Groupe Schneider, Beckhoff, Pilz etc. via Modbus on TCP



Special Features

- **Synchronous data transfer to the CPU**
 - Sophisticated communication control with standard handling blocks
- **Programming**
 - Step® 7 programming via MPI interface
- **Communication**
 - Can be used with TCP/IP, ISO, ISO on TCP and Modbus on TCP simultaneously and in parallel
 - Communication with Siemens S7- and S5 PLCs via RFC1006 protocol, active and passive
- **Security**
 - Top level security standard of data transfer via permanent monitoring of the connection state
 - Optional password protection,
 - Writing to the PLC may be forbidden or allowed for each connection separately
 - Additional backup on the FlashRomCard
- **Spontaneous data traffic**
 - Fetch on Event reduces network traffic
- **Easy connection diagnosis**
 - Single connection diagnosis and overview of all connections
 - Network state, number of sent and received frames as well as analysis of the indication word
- **Easy Parametrisation**
 - Online via network
 - Offline on PC for later transfer to the CP
 - Serial

Order Data

S7-TCP/IP

Product:	Order Number:
S7-TCP/IP	200-8000-01
PLC cable S7-CP/CPU basic	700-6700-01
PLC cable S7-CP/CPU, 90°	700-6710-01
PLC cable S7-CP/CPU, 35°	700-6720-01

Accessories S7-TCP/IP

- **PLC cable S7-CP/CPU basic**
 - PLC cable basic
 - MPI, 9 pin D-Sub male – MPI, 9 pin Sub-D male
 - Included in the scope of supply of the S7-TCP/IP
 - Length: 0,5 meter
 - Order number: 700-6700-01
- **PLC cable S7-CP/CPU, 90°**
 - PLC cable
 - With Profibus connector on CPU side and bus connector, vertical cable exit
 - MPI, 9 pin Sub-D male – MPI, 9 pin Sub-D male
 - Length: 0,5 meter
 - Order number: 700-6710-01
- **PLC cable S7-CP/CPU, 35°**
 - PLC cable
 - With Profibus connector on CPU side and bus connector, 35° cable exit
 - MPI, 9 pin Sub-D male – MPI, 9 pin Sub-D male
 - Length: 0,5 meter
 - Order number: 700-6720-01

