

7274(RC) NTP/SINEC H1 LAN board

Technical Data.

Assembly	
Model:	Euro-board 160mm x 100mm for operation in hopf base systems
Internal system voltage Vpp:	5V DC \pm 5% via system bus
Temperature range:	Operation: 0°C to +50°C
	Storage: -20°C to +75°C
Humidity:	max. 95%, not condensing

LAN – ETH0/ETH1	
Network connection:	via LAN cable with RJ45 connector, male (recommended cable type CAT5 or better)
Request per second:	max. 3,000 requests (during operation in GigaBit networks under optimum network conditions)
Number of connectable clients:	theoretically unlimited
Network interface ETH0:	10/100/1000 Mbit/s autosensing
Ethernet compatibility:	version 2.0 / IEEE 802.3
Isolation voltage (network-to system-side):	1500 Vrms
Boot time:	typical: 35 seconds - When using static IP addresses for ETH0 and ETH1. Depending on the network configuration in use (e.g. DHCP) an extension of the boot phase can occur.



function board 7274
3U, 4HP

Power consumption internal	
Standard operation:	typical: 550mA (max. 850mA)
Boot phase:	typical: 550mA (max. 850mA)

MTBF value	
MTBF:	> 740,000 hours

Interfaces

- 2x Ethernet 10/100/1000 Mbit/s autosensing via RJ45
- 1x USB-Port for update and recovery function

Time Protocols

- NTPv4 Server
- NTP Broadcast
- NTP Multimode
- NTP Client for further NTP Server (redundancy)
- SNTP Server
- SINEC H1 time datagram
- RFC-867 DAYTIME Server
- RFC-868 TIME Server
- Precise Time Protocol (PTP) according to IEEE 1588-2008 (**optionally activatable**)

RFC Listing of Supported Protocols

- NTPv4 - Protocol and Algorithms Specification (RFC 5905)
- NTPv4 - Autokey Specification (RFC 5906)
- PPS API (RFC 2783)
- DHCP (RFC 2131)
- Time Protocol (RFC 868)
- Daytime Protocol (RFC 867)
- HTTP (RFC 2616)
- HTTPS (RFC 2818)
- SSH-2 (RFC 4250-4256, 4335, 4344, 4345, 4419, 4432, 4716, 5656)
- TELNET (RFC 854)
- SNMP (RFC 1213, RFC1901-1908)
- SYSLOG (RFC 5424)
- SMTP (RFC 5321)

Optionally activatable features:

- VLAN support according to IEEE 802.1q
- Port Aggregation (NIC Bonding/Teaming) with support of IEEE 802.3ad trunks
- Parallel Redundancy Protocol (PRP) according to IEC 62439-3