



## Ethernet LAN Communication Module



### General description

The Ethernet module makes it possible to connect a Master Clock to a LAN (Ethernet Local Area Network). The module can be built into any QWTIME III Master Clock.

The module can be used for Master Clock remote control, programming of relay outputs, alarm distribution, supervision and for distribution of correct time.

For transmission of correct and accurate time the NTP (Network Time Protocol) is used. NTP is a part of the protocol family UDP/IP.

When using the Ethernet module for time distribution the Master Clock can act as a NTP primary server or as a NTP client.

Units connected to the LAN, supporting NTP, can receive correct time from the Master Clock via the network module.

Included with the Ethernet module is NyToP, Westerstrand NTP-client for Windows 98/NT/2000/XP.

For remote control and relay programming the windows based application software QW3Control can be used. The QW3Control is an option.

### Technical data:

Art. no.:	123383-00
Supports protocols: (For time distribution)	NTP version 1, 2 and 3, RFC1305 SNTP, RFC 1769
Other supported protocols:	Telnet (RFC 854) HTTP SNMP v1 Enterprise MIB (RFC 1155 – 1157)
Transport protocol:	TCP/IP
IP-address assignment	Dynamic, using DHCP, or fixed IP-address
Compatibility:	Ethernet version 2/IEEE 802.3
Ethernet:	Supports 10/100BASE-T (RJ45) connections
Ambient temperature:	-0°C up to +40°C
Device Management:	Web-Based (requires web browser) or Telnet
NTP client software:	NyToP , freeware, manual 1672
Application software:	QW3Control art. no. 123396-00, manual 1739