

Master Clock Systems

Series 6400 SNTP Time Client

Model 6400-3500



FEATURES:

- High-performance processor (12 MIPS at 48 MHz, 22 MIPS at 88 MHz)
- 10/100Mbit Ethernet – auto-sensing
- Stable, field proven TCP/IP protocol suite
- IP Addressing can be DHCP or fixed IP
- Telnet Password Protection
- Supply 12V DC @ 250mA
- SNTP Protocol compliant
- Configurable Serial Settings: (default) 4800 Baud, 8 Data, No Parity, 1 Stop bit, No flow control, RS232
- Ethernet Poll rate 1 minute minimum up to 24 Hour maximum
- Time Mark Resolution +/- 1 mSec, Pulse Width 200 mSec.


DESCRIPTION:

The SNTP Time Client is designed to synchronize its local time from an NTP Server source on the LAN. The 6400-2320 Master Clock is designed to receive serial transmissions from the SNTP Time Client in standard NMEA format. Daylight saving and Time zone adjustments are conducted internally within the Master Clock. The SNTP Time Client is configured to poll the NTP Server at set intervals. The scheduled polling interval shall be no less than 1 minute and no greater than 24 hours, in minute increments (i.e. HH:MM). The SNTP Time Client IP address can be configured as required either, manually, via a Network Administrator assigning a fixed IP Address Automatically or via a DHCP Server on the Network. The SNTP Time Client is configured over the LAN Telnet session through a series of text based menus. The SNTP Time Client maintains an SNTP Poll error counter to log the number of unsuccessful / Total NTP Server requests, the error counter automatically resets at a predefined rolls over count of 30K.

[Contact Us](#)

Website: www.simplextime.com.au
Email: simplextime.au@tycoint.com
Phone: 13 14 91 [Australia only]
Document: 6400-3500 SNTP Time Client Clock Datasheet.doc
Revision: V2.0 (17 April 2007)
Issued: Jan 2009

SPECIFICATIONS:

Category	Description
Power:	Typical 250mA @ 12V dc
Supply Voltage:	Range 4 V dc to 16 V dc
CPU, Memory:	DSTni-EX 186 CPU, 256KB zero wait state SRAM 512KB Flash 16KB Boot ROM
Firmware:	Upgradeable via a) Windows XP shell using TFTP over the LAN; b) Serial port RS232 c) Device Installer over the LAN
Serial Interface:	RS232. Only necessary to connect TX and SGND
Serial Line Formats:	RS232 settings are hard coded in the firmware using 8 data bits, 1 Stop bits, No Parity, Baud 4800bps (NMEA-0183 default settings)
Time Mark Interface:	Time mark is a 100 millisecond pulse that repeats at a rate of 1 pulse per second. This signal is only transmitted when the NTP Time Client has valid communications with the NTP Time Server. When communications is lost the TM signal remains at SGND
Network Interface:	RJ45 Ethernet 10BASE-T or 100BASE-TX (auto sensing)
Compatibility:	Ethernet: Version 2.0/IEEE 802.3
Protocols Supported:	SNTP
LEDs	<div style="display: flex; align-items: center;"> <div style="flex: 1;"> <p>Link LED: (Left Side) Off: No Link Amber: 10Mbps Green: 100Mbps</p> <p>Activity LED: (Right Side) Off: No Activity Amber: Half-Duplex Green: Full-Duplex</p> </div> <div style="flex: 1; text-align: center;">  </div> </div>
TIMEMARK LED	Flashes Amber when the Time Mark signal is active. The Leading edge of the Time Mark signal coincides with the change in second
Management:	Telnet login (port 9999)
Security:	Password protection (4 character)
Dimensions:	PCB: 72 x 92 x 35mm
	Enclosure: 120 x 30 x 103mm

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