Time and Frequency NTP Server Model: 8461

Application - Defense (Military) • SatCom • Wireless

- Range Timing
- Communications Networks
- Satellite Ground Stations
- Test and Measurement Systems

General Description:

The Model 8461 is a Stratum 1 Network Time Server that is synchronized from an optical IRIG-B DC-level shift link or a wireline Modulated IRIG B link providing time synchronization of <1 microsecond of time reference. The optical link provides a time synchronization bridge to Isolated Network Domains. The NTP server supports NTPv2, v3, v4 and SNTP clients. An onboard OCXO provides holdover capability in the event that synchronization is lost from the IRIG reference.



Configuration and status of the system can be done through the Ethernet interface using a Web browser, or through a command line using Telnet or SSH. An RS-232 I/O is also available for configuration and status using the command line interface. The Model 8461 can be powered from an external wall plug AC/DC power supply or from Power over Ethernet (PoE) capable switches.

Power and Status LED indicators are provided for visual status and a recessed push button reset switch to set the network port IP address to factory default.

Specifications:

Input Time Reference

IRIG-B002 (year set manually) or IRIG-B006 (year set from time code)
820 nm Multimode 50/125µm, 62.5/125µm, 100/140 µm and 200 µm
2,000 meters with 62.5/125 µm optical cable
ST
IRIG-B122 (year set manually) or IRIG B-126 (year set from time code)
1.0 to 6.0 Vpp
2:1 to 6:1
50 ohm single ended
BNC
10/100 BaseT IPv4, IPv6

HTTP, HTTPS, SSH, TELNET,

SNMP, v1,v2, v3, DHCP

Network Time Protocols: NTP v2, v3, v4, SNTP, MD5 Authentication Connector: RJ-45 **RS-232 Port** Signal Level: RS-232 Baud Rate : 9600

Connector: Power:

Protocol :

External AC/DC wall mount power supply Power over Ethernet (PoE) IEEE-802.3af-2003 7 watts max, type 1 class 3.

Environmental:

Operating Temperature:	-40°C to +85°C with PoE, 0°C to +40°C with external AC/DC power
Storage Temperature:	-40°C to +85°C
Humidity:	0 to 95% non-condensing
Transportation Shock	
and Vibration:	Common Carrier
Physical:	5 1" L v 6 7" W v 1 6" H

Dimensions: Weight: Mounting: Optional Mounting: 5.1" L x 4.7" W x 1.6" H < 1lbs Four # 6-32 screws in base U rack mount adapter

8-data bits, 1-stop bit, no parity

9-pin female D-sub

Specifications subject to change without notice.

TRAK Microwave Corporation E-mail: sales@trak.com • www.trak.com Ph: 813-901-7200 • Fax: 813-901-7491 4726 Eisenhower Boulevard • Tampa, FL 33634-6391 USA © TRAK Microwave Corp.

smiths bringing technology to life

Network Protocols: