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NTP Server/ Network Time Device
NTV-100RG

- o Compact size and low cost
- o Uses Network Time Protocol to synchronize computers and other devices
- o Programmable serial message compatible with almost any time display
- o Browser based user interface for easy setup
- o GPS synchronized
- o LED colons indicate GPS lock status

Brandywine Communications Network Time Device provides a convenient and flexible means of accurately time synchronizing computers, time displays, PBXs, and a wide variety of other equipment.

The NTV-100RG is a small rack mounted GPS synchronized Network Time Server. Using the built-in GPS receiver, the NTV accurately synchronizes its internal clock. It then provides accurate time to clients on the network using the industry standard Network Time Protocol (NTP). It also outputs a time message once per second through its built-in serial ports. Both RS-232 and RS-485 ports are provided. The time message format is user programmable and can be used to synchronize almost any device.

Management of the NTV internals is by means of a built-in web browser interface. This password protected web page allows the user to set up the text string required for the equipment to be synchronized. Time zone offsets and daylight savings setup are also accessed through the same web page.

The NTV may also be used in a client configuration. In this configuration the NTV will synchronize to a Network Time Server over the Ethernet connection and output serial time messages suitable for driving time displays or other devices.

Brandywine Communications also offers a complete line of time displays that are synchronized by NTP over a network connection.
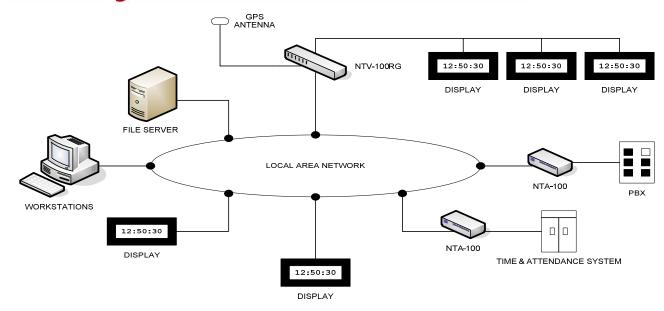
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Figure 1 Typical NTV Applications

NTV-100RG Specifications

Interfaces	
Network Interface	10/100 BaseT Ethernet
Connector	RJ45
IP Address Setup	Manual or automatic via DHCP
Serial Interface	
Connector	DB-9 female
Electrical	RS-232 and RS-485
Baud Rate	300 baud to 38.4K baud
Message Format	User programmable
Update Rate	Once per second
Protocols	
Network Time Protocol	RFC1305
NTP Update Rate	User programmable 1/second to 1/day
	SNMP V. 1/ SYSLOG
Time Zone	User programmable
Daylight Savings Time	User programmable, default is USA
Physical	
Size and Weight	19" x 1.73" x 4.65" and 3 lbs.
Mounting	Standard equipment cabinet
Power	90-264 VAC < 5W
Antenna	Antenna and 100′ of cable included

The NTV-100RG is compatible with NTP v3 equipment including the following line of Brandywine Communications network products:

Model PTS: Redundant Network Time Server with GPS and rubidium oscillator
Model M210: Modular Master Clock may be configured for a variety of applications
Model NTP8: GPS or IRIG B input Network Time Server
Model NTD: Network Time Displays and Adapters