

## NTS-4000-GPS-R

### Key Benefits

- Consistent and Reliable Timing
- Quick and User Friendly Set-Up
- At 8 Watts, Unit Stays Cool Maintaining Efficiency
- Compact Unit, 1U High and Rack Mounted
- Quick and Easy Readings from Backlit LCD Display



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### Product Overview

As professionals in the market, Galleon understand the unique needs of small to medium sized multinational companies and have developed the flexible and accurate NTS-4000-GPS-R. Designed for a 19" rack but with a depth of 164mm, the Galleon time server is an efficient space saving unit that can synchronise thousands of clients. By providing such cost effective solutions for network time, Galleon has developed an impressive customer base with organisations such as The Ministry of Defence, Vodafone and Ford trusting us with their synchronisation.

Combining support from a GPS clock with an embedded Linux solid state computer for redundancy, the Galleon NTS-4000-GPS-R is easily installed and operated. Issued with lifetime technical support and an efficient space saving design, Galleon provides a comprehensive and easy solution for secure time networks.



**Testimonial** - "We bought our Galleon server around February 1998 and it has been running successfully nonstop since it was set up. We use it as an NTP Master Clock, which all our other units synchronise with" - Peter Michael

### What's Included:

1. NTS-4000-GPS-R Unit
2. Manual
3. Power Cable
4. NTP Software
5. Junction Box
6. IDC Cable Tool
7. GPS Mushroom Antenna with a 10m/8 Core Cable

### Assurances:

6 Years Warranty  
GPS Antenna Sealed to IP65  
FCC and CE Certified



## NTS-4000-GPS -R

### Product Specification

<b>NTS-4000-GPS-R</b>	
<b>Protocols - NTP &amp; SNTP</b>	<b>NTP v2 (RFC 1119) NTP v3 (RFC1305) NTP v4 (RFC 2131) SNTP v3 (RFC 1769) SNTP v4 (RFC 2030)</b>
<b>Configuration</b>	NTP Software
<b>Technical Standard</b>	NEMA 0183 V.2 Compliant
<b>Network Interface</b>	<b>Standard 10/100 Base-T, RJ-45 Network Connection</b>
<b>MTBF Estimated</b>	<b>45,000 hrs</b>
<b>Display</b>	LCD with Backlight
<b>Operating System</b>	Proprietary OS (PIC Chip)
<b>Operating Temperatures</b>	0-50°C (32-122°F)
<b>Heat Dissipation</b>	80 BTU Per Hour
<b>Humidity</b>	Max. 85% Non Condensing
<b>Mount</b>	Rack
<b>Function</b>	Stratum 1 Time Server and Secure Shell (SSH)
<b>Network Accuracy</b>	Network: +/- 5 Milliseconds, Typical GPS: <1 Microseconds, Relative to UTC
<b>NTP Time Requests</b>	<b>Up To 57 Per Sec</b>
<b>Power Supply Universal</b>	85-260V, 47-63Hz
<b>Power Consumption</b>	8 Watts
<b>Dimensions (mm) Packed Unpacked</b>	Unpacked 1U: (H) 45 (W) 423 (D) 163 Packed: (H)160 (W) 620 (D) 510
<b>Properties</b>	Powder Coated Steel
<b>Weight Packed/Unpacked</b>	4.2 Kg/2.4kg with Antenna
<b>Source</b>	<b>Satellite</b>
<b>External</b>	<b>Active 12 Channel GPS</b>
<b>6 Years Warranty</b>	

### Description

The Galleon 4000 network time server synchronises time and provides a reliable stratum 1 response with 3,000 time requests per minute.

The IP address can either be automatically configured by DHCP or a static IP address can be entered manually.

Displaying necessary run-time information for the NTP subsystem on a backlit screen, the unit also supports NTP software and acts as a secure shell.

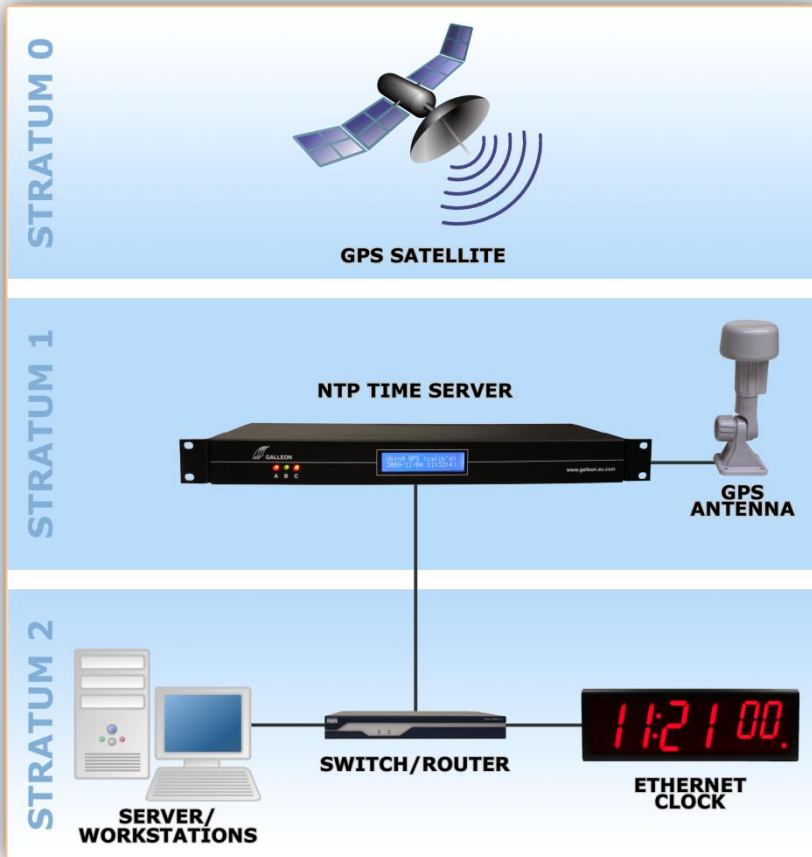
Whilst an active 12 channel GPS antenna is fitted externally and sealed to IP65, protecting against water and dust ingress.



Front View

## NTS-4000-GPS-R

### Basic Configuration



### GPS Antenna

Tracking up to 12 satellites at the same time, GPS offers an accurate signal capable of a reliable and consistent reading anywhere in the world. Used extensively for synchronising time from one location to another, GPS signals are received globally and maintain a high level of accuracy.

Functional up to 1000m (3,000 ft) away from the time server, additional cable length can be added to the supplied 10m to increase cable size to desired length. An extra power supply is recommended past the length of 550m to ensure the unit is running at optimum efficiency.



**Testimonial** - "We have been a galleon customer for over five years. The unit was easy to install, reliable and continues to operate without any requirements for maintenance, highly recommended" – Lee Jones

### Optional Extras

- Lightning Arrestor
- Gold and Premium Service
- Digital Wall Clock - Ethernet Powered
- Antenna Cable - Available from 100 to 1,000 metre rolls
- Additional Power Supply - Recommended from 550 metres onwards
- TimeSync SNTP Client Software - User Licenses available from 5 to 300 plus
- TimeSync NTP Uni-Cast Software - User Licenses available from 5 to 300 plus

"NTP Server & GPS Time Specialists"



Rear View