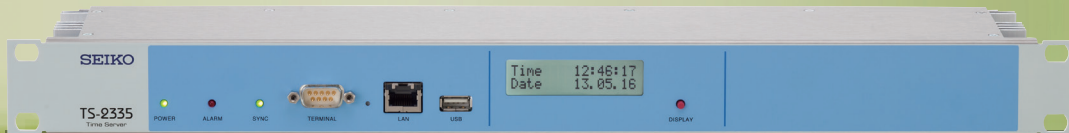


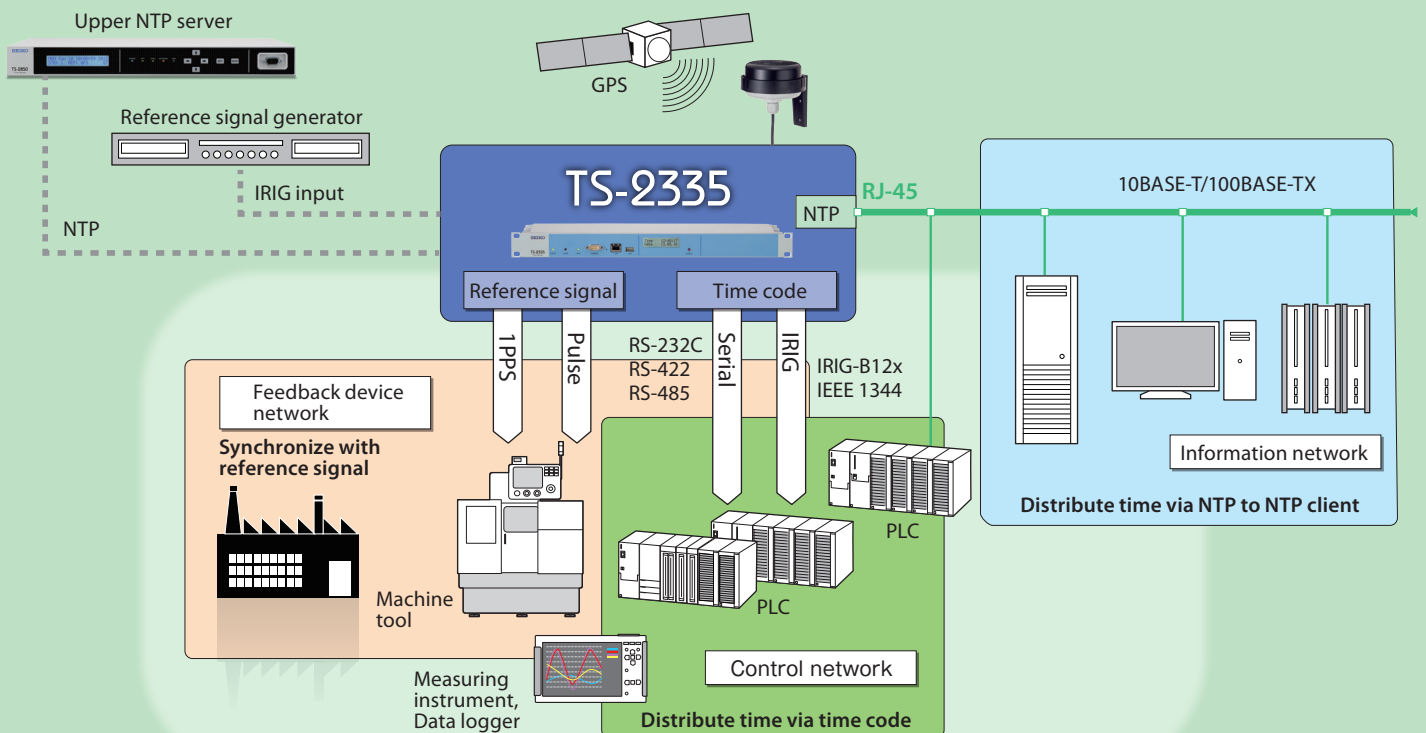
Multipurpose NTP Time Server

# Time Server TS-2335



Synchronize the time for various systems with versatile time distribution outputs

Keeping the common time base for all equipment is essential to collaborate with various systems. Seiko Time Server TS-2335 is equipped with not only NTP (Network Time Protocol) output but also versatile time outputs and can synchronize the time for different kind of systems.



**TS-2335 obtains a highly accurate time from GPS receiver and distributes a reference signal based on it through versatile interfaces. Hence time converters or reference signal generators are not necessary any more.**

### Versatile output interfaces

Besides a time distribution via NTP output, TS-2335 is equipped with time code outputs (IRIG, serial interface) and reference signal outputs (pulse output and frequency output).

### Redundant power

Completely redundant power supply with the combination of AC90-240 x DC 24V or DC24V x DC24V.

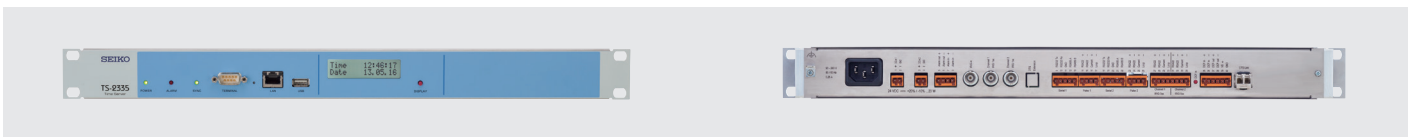
### IRIG time code

TS-2335 can be either synchronized from a dedicated GPS receiver, from another NTP server or from IRIG time source.

### Redundant NTP server operation

To avoid time deviation between two TS-2335, they can be linked via a fiber-optic connection by using optional two GBIC modules.

## TS-2335



| Specifications                  | TS-2335  |
|---------------------------------|--|
| Time source                     | GPS satellite  |
| Accuracy                        | ±1 ms  |
| Built-in oscillator accuracy *1 | ±10 ms/ day (+25°C)  |
| LAN Interface                   | 10BASE-T/100BASE-TX x 1 (RJ-45)  |
| NTP processing capability       | 1250 requests / sec  |
| Time distribution protocol      | NTP, SNTP, TIME, DAYTIME   |
| NTP mode                        | Server, peer, broadcast, multicast   |
| Network services                | IPv4, IPv6, Telnet, SSH, SCP, FTP, SFTP, SNMP, SMTP  |
| Time signal outputs             | IRIG x 2 (BNC), Serial x 2 (RS-232C, RS-485)<br>Pulse x 2 (Pulse/Frequency, RS-422), Alarm relay x 1 |

| Specifications                   | TS-2335                       |                       |
|----------------------------------|-------------------------------|-----------------------|
| Rated voltage                    | AC90 ~ 240V (50Hz / 60Hz)     | DC24V +20% / -10% x 2 |
| Power consumption                | Max. 10W                      | Max. 20W              |
| Operation temperature            | 0 ~ 60°C                      |                       |
| Operation humidity               | 10 ~ 90% RH (no condensation) |                       |
| Installation style               | 19 inch rack mount            |                       |
| Dimensions (without projections) | 483 (W) x 125 (D) x 44 (H) mm |                       |
| Weight                           | Approx. 1.8kg                 |                       |
| Certificates                     | VCCI-A, RoHS, PSE             |                       |

\*1 : Described accuracy is a factory default value and subject to change depending on the environment of use.

### Dedicated GPS signal receiver (GPS4500)

| Specifications                 | GPS4500                                |
|--------------------------------|--|
| Frequency                      | L1 C / A                               |
| Rated voltage                  | DC10 ~ 40V (24V supplied from TS-2335) |
| Power consumption              | 0.4W                                   |
| Operation temperature          | -30 ~ 70°C                             |
| Environmental protection class | IP65                                   |
| Dimensions                     | Φ79 x 86 (H) mm                        |
| Weight                         | Approx. 200g                           |
| Cable length                   | 10m                                    |



Dedicated GPS signal receiver (GPS4500)

\* Seiko Solutions offer one year warranty for this product.

\* Specifications described in this catalogue are subject to change without notice.

\* Company names, and product names are trademarks or registered trademarks of their respective companies.

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