RoHS Compliant

Introducing a New Standard
Model SSR-6Tr High Performance GPS Precision Timing Receiver with SBAS *
(GLONASS and Galileo when announced by u-Blox)

Introduction:
This 4th Generation GPS Precision Timing Receiver is based on the state-of-the-art u-Blox 50-channel, SBAS enabled, LEA-6T ROM based, u-Blox miniature timing module.

Features:
- Designed specifically for precision timing applications
- u-Blox Binary and NMEA messages (9600 baud)
- Motorola binary message emulation (9600 baud)
- Super-Fast TTFF and State-of-the-Art Sensitivity
- Two Time Pulse Outputs - Individually Configurable
- Anti-Jamming Performance in EMI Environments
- Jamming Signal Indicator (u-Blox mode only)

Physical Characteristics:
Built on the popular 60 mm x 40 mm form factor, the receiver dimensions, mounting hole locations, connector types and positions are all the same as Synergy’s SS-12 Sony based GPS board and Motorola M12x receivers and various clones.

Electrical Characteristics:
The high performance SSR-6Tr is based on the u-Blox ROM based LEA-6T-0. Full performance specifications and features are listed at http://www.u-blox.com. Configuration data is stored in Flash for automatic setup at power-on. The SSR-Tr includes an on-board PIC processor to generate Motorola binary emulation messages. The emulation processor is remotely programmable so additional Motorola binary messages can be added as they become available from Synergy. The SSR-6Tr incorporates antenna over current protection and is usable with both +3V and +5V active GPS antennas.

On-board microprocessor:
The PIC microprocessor, if not used for message emulation, can be user programmed to add custom features.

Note: Form factor options designed and quoted on request.

* Satellite Based Augmentation System

Specifications subject to change without notice.

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The basic SSR-6xxx PCB outlined above is used for several OEM precision timing and navigation boards. The precision timing versions do not use RTCM input on pin 8. An external backup voltage may power the RTC if required during power-off. Optional versions are available with an on-board 11 mAh rechargeable battery to operate the RTC when the receiver is powered down. When an on-board back-up battery is not used, connect pin 6 to ground (typical). For interface to Motorola legacy 8 channel form factor, specify Synergy Adaptor Board P/N 10001450G-3

For configuration assistance, order placement and technical support call or Email:

Phone: (858) 566-0666 · Fax (858) 566-0768
Email: oeminfo@synergy-gps.com
www.synergy-gps.com

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