



# TSC 2213B

## GPS Receiver

### KEY FEATURES

- NTP Stratum 1 Time Recovery
- 12 Channel GPS Receiver
- Powers 5V or 12V Antennas
- Keyboard / VGA Interface (with CBL 381)
- Network Interface
- Serial Interface
- Accuracy of NTP Server <1 ns
- Accuracy of Ref-UTC Comparison <10 ns
- Controllable Through Network Socket
- Extremely Configurable

The TSC 2213 GPS Receiver is a single frequency GPS collection unit that tracks up to twelve GPS satellites at L1 (1575.42 MHz). The receiver produces a 1PPS signal that is measured with respect to the site 1PPS signal using the 2154 two channel timer. The time difference between site 1PPS and the TSC 2213 is communicated to the TSC 2213 over RS-232 and combines with GPS measurement information using a processor in the TSC 2213. Processed GPS offset data is produced by the TSC 2213 via RS-232 and Ethernet. This data is typically processed externally to compute a steer for a clock or to track the drift of a clock.

The TSC 2213 is part of Symmetricom's Modular System that makes it possible to integrate semi-custom timing systems.

Please contact Symmetricom with any specific requirements.



TSC 2213B GPS Receiver

## TSC 2213B Specifications

### ELECTRICAL SPECIFICATIONS

- 1PPS Output
  - Output impedance: 50Ω
  - Accuracy: <25 ns
  - Time mark: Rising Edge
- GPS RF characteristics
  - Dynamic range: 27 dB
  - Saturation: -110 dBm
  - Input impedance: 50Ω
- Status
  - Green/Red LEDs Indicates State of Program
  - Substantial Info through Network
  - Separate Green and Yellow LEDs for Antenna Voltage

### ENVIRONMENTAL & PHYSICAL SPECIFICATIONS

- Temperature: 0°C to 50°C
- Humidity: 0 to 95% non-condensing
- Power requirements: Powered by ISA bus in 2003 chassis
- Dimensions: 1 slot of 2003 chassis
- Weight: 2 lbs (0.81 Kg)



**SYMMETRICOM, INC.**  
2300 Orchard Parkway  
San Jose, California  
95131-1017  
tel: 408.433.0910  
fax: 408.428.7896  
[info@symmetricom.com](mailto:info@symmetricom.com)  
[www.symmetricom.com](http://www.symmetricom.com)

©2007 Symmetricom. Symmetricom and the Symmetricom logo are registered trademarks of Symmetricom, Inc. All specifications subject to change without notice. DS/TSC2213B/D/0107/PDF