



Testing Results

Leap Second Testing

Model Name: S100 GPS

CPU Firmware 1.3

Date Tested: November 5th, 2005

Leap Second tested product from Symmetricom provides Time of Year information across the boundary between December 31, 2005, and January 1, 2006. This includes, but is not limited to, handling of the Time information provided via integrated displays and output ports.

Symmetricom products that report time information will do so as described below.

Simulation Start Time: December 31st, 2005 at 23:15:00 (test run time 1 hour)

Expected Results: The system time, and all of its related outputs, should increment time monotonically except for the following discontinuity, which is expected:

1. December 31st, 2005 23:59:59
2. December 31st, 2005 23:59:60 (some clocks may display a repeated value of 59 sec)
3. January 1st, 2006 00:00:00

Actual results on IRIG output when set to GPS, IRIG B (1344) sync, Freerun or NTP peer:

365:23:59:58
365:23:59:59
365:23:59:60
001:00:00:00
001:00:00:01

Actual results on Sysplex output when set to GPS, IRIG B (1344) sync, Freerun or NTP peer:

365:23:59:58
365:23:59:59
001:00:00:00
001:00:00:00
001:00:00:01

NTP Leap Flag warning Not Set within the packet while locked to GPS, IRIG, or Freerun. It is set when NTP peer.

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Symmetricom is not responsible for the correct processing of this information by any external program or device, only the transition from the year 2005 to the year 2006 as provided by integrated displays and output ports.