



## Testing Results

### Leap Second Testing

**Model Name:** XLi P/N 1510-602

**Firmware Version:** CPU 1.90

**GPS receiver:** 86-8013; or 86-8028 v1.18

**Date Tested:** September 21st, 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 31<sup>st</sup>, 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 31<sup>st</sup>, 2005 23:59:59
2. December 31<sup>st</sup>, 2005 23:59:60 (some clocks may display a repeated value of 59 sec)
3. January 1<sup>st</sup>, 2006 00:00:00

Actual results on RS 232, Display and IRIG Port:

365:23:59:58

365:23:59:59

365:23:59:59

001:00:00:00

001:00:00:01

NTP set the Leap Flag warning within the packet.

When using IRIG as source leap second inserted 5 seconds after event. NTP packet shows unsynchronized during this time.

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.

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