

## LC2750 – RS232 GPS TIMING REFERENCE

### KEY FEATURES

Industry leading 5 year warranty

12-channel GPS receiver with high sensitivity **INDOOR** operation.

Single satellite timing operation

Rugged, compact, Aluminium enclosure

Very low power consumption aiding reliability

Universal Power Supply for operation world-wide

### BENEFITS

Accurately synchronize time critical processes

Accurate, traceable time reference inside your firewall

Reliable timing information derived from atomic time

Simple to install, configure and maintain

### WARRANTY & SUPPORT



### COMPLIANCE



### PRODUCT OVERVIEW

TimeTools new LC2750 RS232 Serial GPS timing receiver provides computers and computer networks with a highly precise timing reference.

The LC2750 provides a real breakthrough in price and performance.

The compact device is housed in a rugged, aluminium enclosure, ideal for applications with space saving requirements.

*"The LC2750 provides a reliable, highly accurate, traceable, source of time inside your firewall".*

#### \*\*\* Indoor Operation \*\*\*

The LC2750 incorporates a highly sensitive GPS timing receiver that can often operate indoors. This reduces installation costs, as a roof mounted GPS antenna is often not required. Additionally, surge suppression to protect from potential lightning strikes is not required with an indoor antenna. Of course, the GPS antenna is completely weather-proof and can still be mounted outdoors if you wish.

#### \*\*\* Single-Satellite Operation \*\*\*

Over-determined clock technology allows the LC2750 to provide accurate timing information while only a single satellite is in view.

#### High Precision

Timing information to +/- 60 nanoseconds can be provided via a RS232 serial interface. Typically, an 800MHz Pentium PC running Linux can be synchronised to within 1 microsecond of UTC.

#### 5-Year Warranty

The LC2750 GPS Timing Receiver is a low-power convection cooled device with no moving parts, aiding long-term reliability. Our confidence in the reliability of the device is reflected in the provision of an industry leading 5-year warranty.

#### MECHANICAL \ ENVIRONMENTAL

- **Dimensions** 168 x 165 x 54 mm (6.5" x 6.5" x 2.2")
- **Construction** 1.8mm Aluminium
- **Weight** approx 0.8Kg (1.8lbs)
- **Power Supply** Universal 85-264 VAC 47-440 Hz CE/UL/CSA Approved PSU
- **Power Consumption** approx 5W
- **Operating Temperature** -10C ~ +60C
- **Relative Humidity** 95% non-condensing
- **Approvals** CE, EN61000-6-1, EN61000-6-3

#### INPUT \ OUTPUT

- **GPS Antenna Input** TNC female
- **AUX Output:** 9 way 'D' RS232 output
- **Power:** Double Fused IEC Inlet

#### INTEGRAL GPS RECEIVER

- **Type:** 12 Channel, L1 1575.42 MHz
- **Timing:** GPS Time Traceable to UTC (USNO)
- **Accuracy (typical):** +/- 60 nsec UTC
- **Acquisition (Cold Start):** 38 sec

**Supplied with Linux and Microsoft Windows Software.**



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# GPS and LF Antenna Options and Accessories



## Jam-Resistant GPS Antenna

The TWS3978 high gain permanent mount GPS antenna is ideal for timing applications such as the SC Series. It features a perfectly tuned custom ceramic patch element for maximum signal reception, ESD circuit protection, a very low noise (0.5 dB) 3 stage LNA circuit and a SAW filter, enabling the TWS3978 to provide a reliable and clear GPS signal while minimizing loss-of-lock, even when conditions are less than ideal.



## GPS Surge Suppressor

The SPP-GPS is a multi-strike, maintenance free GPS surge suppressor. It protects valuable network equipment from potential lightning strikes and other voltage surges.



## GPS Inline Amplifier – 20db

The GPS inline amplifier offers an extra 20db of gain on top of the antenna gain. This allows for extended GPS cable runs up to and beyond 100m depending on cable types.



## GPS Splitters – 2 to 32 Way Options

TimeTools can provide a range of GPS splitters to allow multiple GPS devices to share a single GPS antenna. Available with a range of outputs in either compact or rack-mount enclosures.

## Product Codes

### LC Series GPS Timing Receiver

SC 2750 RS232 GPS Timing Receiver

LC2750-00

*Scope of Supply: LC Series GPS Timing Receiver, IEC Mains Lead, Serial Communications Cable, Product User Guide and Driver Software*

### Optional LC Series GPS Reference Clock Antennas and Accessories

Jam-Resistant Pole Mounting GPS Antenna and Mount

T-WS3978

30m RG58 Cable

TCX-030

50m RG58 Cable

TCX-050

Additional cable lengths available on request

GPS Surge Suppressor

SPP-GPS

GPS Amplifier – 20db

T-AD200-8

GPS Splitters – 2 to 32 way, compact or rack-mount

P.O.A

*TimeTools Limited has relied on representations made by its suppliers in certifying this product as RoHS compliant.*

*TimeTools Limited is not responsible for the operation or failure of operation of GPS satellites or LF time & frequency broadcasts or the availability of GPS satellite or LF radio signals. All specifications subject to change without notice.*

*Terms and conditions of sale available on request.*

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