The **syncboxRED** provides RS-232 level serial and PPS data with high accuracy GPS precision. Available with a large choice of serial data formats, the syncboxRED is the ideal solution for a wide range of time synchronisation applications.

**Key Benefits:**

- High sensitivity GPS timing antenna with RS-232 outputs
- Wide choice of data formats for CCTV system synchronisation, NTP/PC timing and more...
- Indoor *(close to a window)* or outdoor installation
- 1 µsec PPS accuracy
- Simple to install surface mounting enclosure
- 5 year warranty
## Typical Performance Specifications:
- **PPS accuracy:** 1 µsec
- **PPS jitter:** 30 nsec
- **RS-232 output accuracy:** 50 µsec

## GPS Module Specifications:
- **GPS engine:** 12 parallel channel C/A L 1 (1575.42 MHz)
- **RF reception sensitivity:**
  - Tracking: -189dBW
  - Acquisition (hot or assisted, Ephemeris available): -185dBW
  - Unassisted acquisition (Ephemeris decoded): -174dBW

## I/O Connections:
- **Serial data output:** RS-232 level serial data output
- **PPS output:** RS-232 level one pulse per second output
- **Power input:** 12 VDC power input, supplied with external power adapter

## Mechanical & Electrical Specifications:
- **Dimensions:** 158 x 90 x 55 mm (6.22” x 3.54” x 2.17”) (including removable wall brackets, excluding cable grommets)
- **Weight:** 1 kg
- **Enclosure:** IP66 / NEMA 4X rated, UV stabilised polycarbonate enclosure. Light grey body and clear cover.

## Environmental Specifications:
- **Operating temperature:** -30 to +50 ºC
- **Relative humidity:** 0% - 95%, noncondensing

## Standards Compliance:
- **Electrical safety:** BS EN 60950-1:2006
- **Radio disturbance:** BS EN 55022:2006 (class B)
- **Immunity characteristics:** BS EN 55024:2003