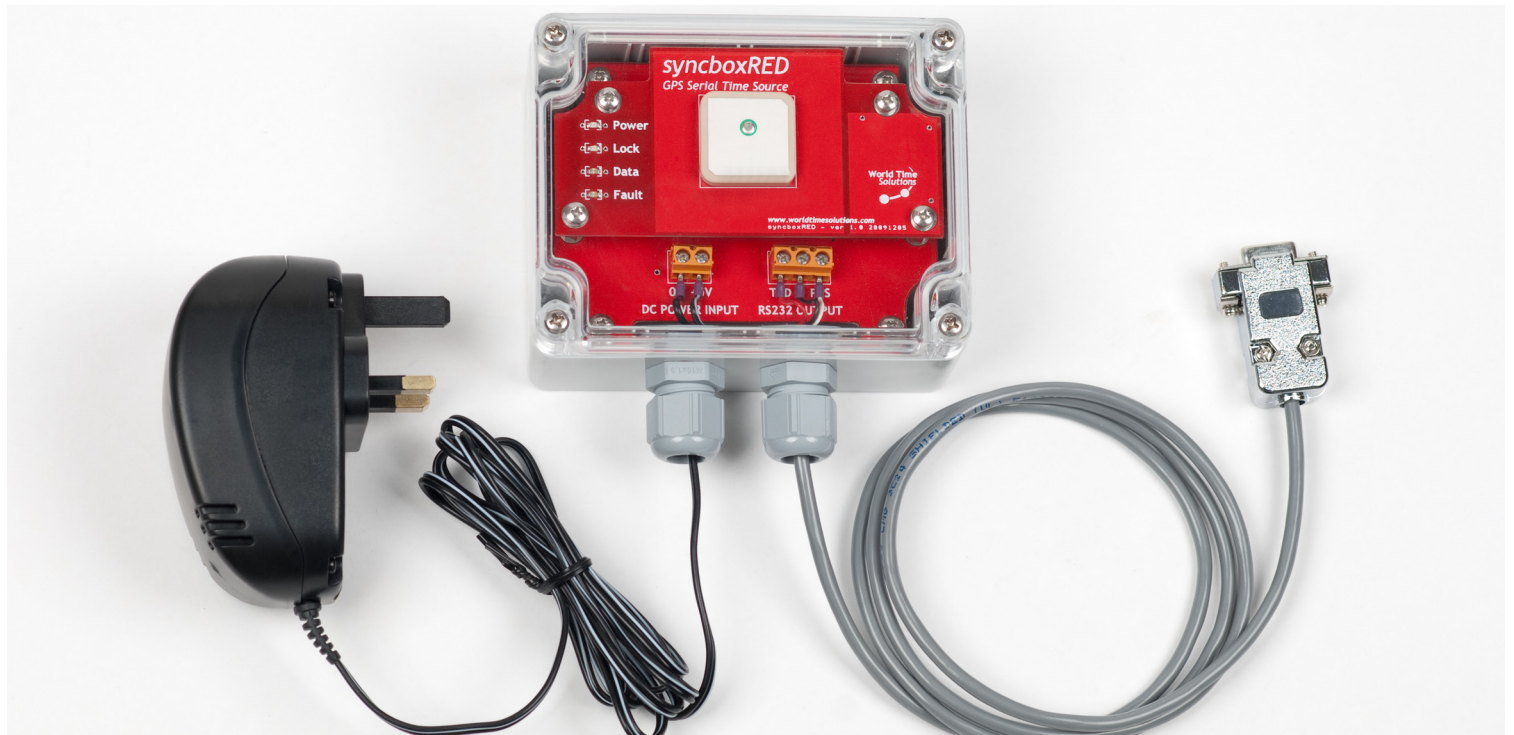


syncboxRED Serial Time Source

A high accuracy GPS synchronised time source with RS-232 level serial and PPS outputs



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 μ sec PPS accuracy
- Simple to install surface mounting enclosure
- 5 year warranty

syncboxRED Technical Specifications

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:	-189dBW tracking, -185dBW acquisition (hot or assisted, Ephemeris available), -174dBW unassisted acquisition (Ephemeris decoded)

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 °C
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

