

SR1060

GPS synchronised Telecom Reference Source

Features

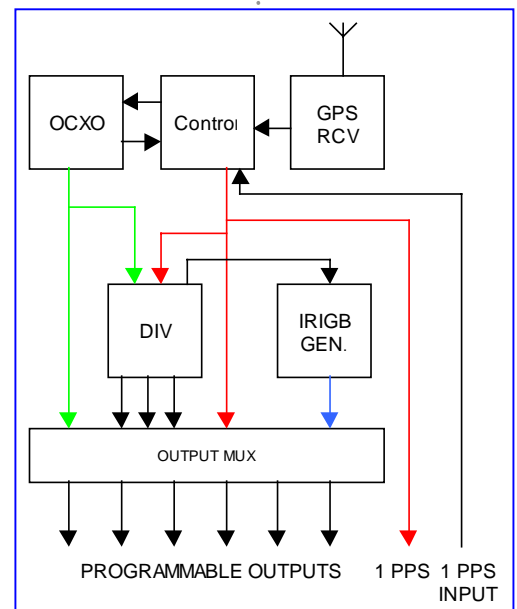
- The SR1060 is a GPS synchronised frequency & time generator dedicated to telecommunications applications. The equipment is housed in a 19" , 1 U rack mount.
- The equipment includes an OCXO oscillator with a long term GPS oscillator disciplining algorithm.
- On the front face, an alphanumeric LCD display, allows time, satellites visibility & operation mode visualisation. The status of the system is shown by mean of 3 LED's (power supply, satellites tracking, locked).
- A six keypads keyboard provide the man machine interface and the monitoring of the equipment.

The equipment main function are :

- A 10 MHz frequency reference source with amplifier
 - A GPS receiver
 - A 2.048 MHz frequency synthesizer with a G703 standard interface
 - A digital signal generator (frequency & pulses)
 - An output multiplexer allowing the allocation of the different signal type to the programmable outputs.
- The GPS receiver is an Oncore UT+ MOTOROLA module able to acquire 8 satellites. The module delivers a high precision, top second reference.
- The 2.048 MHz synthesizer is driven by the 10 MHz internal reference source. The both standard (120 & 75 Ohms) output interfaces are offered.
- In case of GPS' time loss, when starting the equipment, the starting hour of the IRIG B generator could be entered using the front face keyboard.

- The rear face of the equipment holds all the input/output signals. 12 connectors are used :
- GPS antenna input,
 - 1 PPS external input,
 - 1 PPS output,
 - Six user's programmable outputs : 10 MHz sinus, 1 PPS, frequency & TTL pulse (1 PPM, ...
 - E1 output (120 or 75 Ohms)
 - RS232 serial output for time frame periodic emission
 - RS232 link for remote control & management of the equipment

- A Windows® 95/NT management & control software is provided with the equipment.



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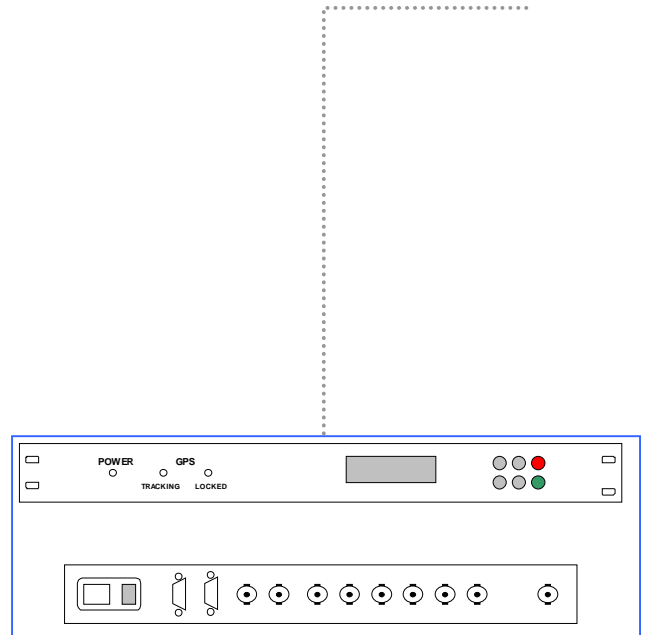
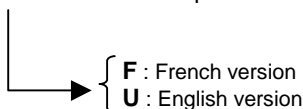
Power supply uses a CEE standard 230V AC connector with fuse, filter & ON/OFF switch.

Specifications

- **1 PPS pulse precision:** ± 50 ns with UT+ Oncore receiver (the receiver is locked on a fixed position)
- **Time signal phase :** ± 200 ns, with regards to the 1PPS reference signal.
- **Generated code :** IRIG B – Amplitude modulated sine signal 1/3, 1/1 - 3 V_{pp}, 50 Ohm.
- **Visualisation :** Universal Time or Local Time.
- **Internal reference :** OCXO 10 MHz or 5 MHz - 1 x 10⁻⁹ / day
- **Frequency output:** Internal oscillator frequency : 10 or 5 MHz. Level +13 dBm/50 Ohm.
- **E1 output :** 2.048 MHz frequency with standard interface : 120 Ohms with BR2 connector or 75 Ohms with BNC.
- **Programmable outputs:** 6 independent outputs, able to receive one's of the following signal, according to user's choice : oscillator frequency (sine), IRIG B, 1 PPS, or TTL outputs of the digital generator (frequency divider & 1 PPM).
- **Auxiliary ASCII output :** Serial frame with Year, day of the year, hours, minutes, seconds. programmable emission period
- **Remote control :** Settings & remote control using asynchronous serial link. RS232 levels.
- **GPS antenna:** standard furniture : active antenna with 6 m cable. Other antennas & cables length in options.
- **Connectors :** BNC for analog and pulse signals, 9 pins females Sub'D for serial RS232 links.
- **Dimensions :** Width = 19" (483 mm), Height = 1U (44.5 mm), Depth = 295 mm.
- **Weight :** 5 Kg
- **Consumption :** 30 W
- **MTBF =** 65 000 h

Ordering information

- SR1050 - 1 - X 2048 MHz output with BR2/120 Ohms
- SR1050 - 2 - X 2048 MHz output with BNC/75 Ohms



Front & rear faces



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