

SKYSYNC MASTER CLOCK BY INTELCAN



Key Features

- Synchronizes with an external synchronous time provider either through a 12 channel GPS receiver or a serial interface.
- The front panel permits users to easily configure and monitor SKYSYNC ports and parameters.
- Capability to add new interfaces and protocols as required
- Can be synchronized with an external NTP server
- Both master and standby clocks are independently synchronized with redundant GPS sources
- Provides time in standard protocol outputs (NTP, IRIG) and electrical format
- Time signal in ACSII text
- Capabilities to receive information from one or more satellites
- Two operational modes: Sync and Autonomous
- Equipped with a backup power supply

High Availability

In the event of a loss of the GPS signal, or a power failure, SKYSYNC automatically switches to Autonomous Operation Mode (backup), preserving correct time internally and continues to provide a time signal to all dependent subsystems. The configuration of the GPS receiver is preserved to allow for fast acquisition of the external synchronous signal time provider after the power is restored.

About Intelcan Technosystems

Intelcan is the leading Canadian communications, navigation, surveillance and air traffic management (CNS/ATM) system and airport infrastructure solution provider. Integrating Intelcan's own products or utilizing products from a diverse supplier network, Intelcan has delivered complete turnkey solutions both cost-effective and flexible, to fulfill civil and military clients' requirements in over 60 countries, worldwide.

Intelcan's **SKYSYNC GPS MASTER CLOCK** is an easily configurable Stratum 1 network time server and time distribution system.

Time signal input/output Interfaces

SKYSYNC contains a configurable GPS Receiver that receives time signals from one or more satellites. A large number of time signal output interfaces are available including serial ports, up to four Ethernet supporting NTP, IRIG-B and IRIG-E, PPM (Pulses per Minute), PPS (Pulses per Second). More interfaces can be added as required.

The configuration of SKYSYNC can be made locally from the front panel or remotely using telnet or web interfaces or the RS232 maintenance serial port.

Specifications

- Power supply:
 - External: 110/220VAC, 30W max.
 - External: 24VDC, 25W max.
 - Internal: +5VDC, +12VDC, -12VDC.
 - Battery: Panasonic BR2330, 3V.
- GPS receiver: 12 channel Motorola M12M Oncore
- Antenna: GPS active antenna, 1.575 GHz, 5VDC, simple display coaxial cable RG-316
- PPS output: TTL open collector, 50 % duty cycle, regenerated.
- IRIG (B or E):
 - Module Amplitude 600: 0dBm a +10dBm (2 a 7 Vpp).
 - Module Amplitude 50 : 5.25 Vpp,
 - Module TTL by pulse width module (PWM): high >4V, low < 0.6V.
- Output for each PPM: +/- 24 VDC @ 500mA, grounded.
- Alarm output: relay dry contacts, max. current 2Amp @ 30VDC.
- Rubidium based back-up time reference