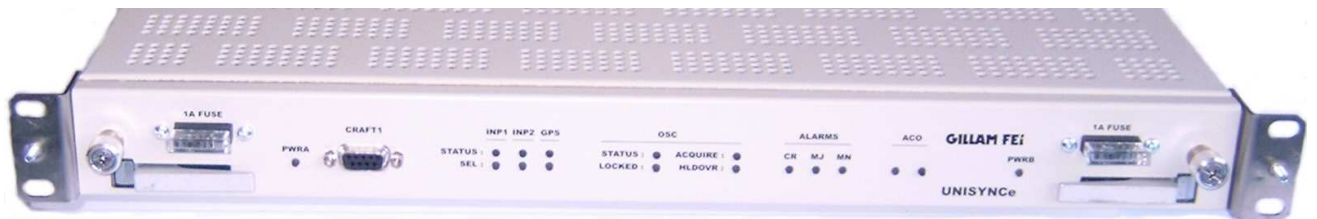




UNISYNce

ENABLING NEXT GENERATION CARRIER NETWORK SYNCHRONIZATION ...



FEATURES

UNISYNce is designed to operate as a mini Synchronisation Supply Unit (SSU/BITS) for common clock distribution to all Network Elements (NE's) requiring external timing reference source.

It has been designed to comply with all ETSI, Telcordia and ITU-T G.811 and G.812 international telecom recommendations. It is based on a high performance GPS timing receiver and it can be equipped with additional reference input modules to accept two timing reference signals of various formats and sources. It can accommodate up to 12 output timing sources (two in the basic configuration).

The equipment can be also used for computer time synchronization, thanks to its NTP / SNTP server stratum level 1. "Time of day", IRIG (A or B) interfaces are also available (IRIG requires an optional plugin module).

An optional GLONASS + GPS solution is also available. This one uses GLONASS and GPS satellites constellation in an integrated way, where all visible satellites belonging to both constellation are used simultaneously to improve clock performance.



UNISYNcE PRODUCT SPECIFICATIONS

Standard Compliance

- ◆ ITU-T: G.703, G.704, G.732, G.811, G.812, G.823
- ◆ ETSI: EN 300 386, EN 300 462-3-1, EN 300 462-4-1, EN 300 462-6-1
- ◆ NEBS Level 3
- ◆ IP v4

Input

The UNISYNcE can be equipped with 2 bridged input ports. This requires one plugging module per input. Each external input port is independently software configurable for standard signal frequencies as follows:

- DS-1 1544 kbit/s, Framing selectable—SF or ESF
- E-1 or 2048 kHz
- Optional Composite Clock
- Optional 1/5/10 MHz.

Each input is monitored for LOS, AIS, OOF, and BPV when applicable.

SSM messages are also monitored when available.

Oscillator Options

Standard Quartz ST-3E & Rubidium ST-2

System Communications Interfaces

Two craft interfaces

TCP / IP Local Area Network interface via RJ-45

TL-1 agent

SNMP for equipment supervisory

GPS

Single GPS or optional GPS/GLONASS module

Integrated GPS receiver

Optionally, antenna converter allowing to use 300m of RG59 coaxial cable to connect the antenna.

Optional NTP / SNTP Server

NTP version 4 RFC 5905 Stratum 1 server mode (old reference : SNTP RFC 4330)

Optional IRIG Module

IRIG-A : 007, 137, 207

IRIG-B : 007, 127, 207

Frequency Outputs

Base configuration: 2 outputs ports and 2 auxiliary ports

1 additional plugging module provides 10 outputs ports

All outputs are settable : 2048 kHz or E1

Auxiliary ports (2) are settable : 1,5 or 10 MHz

1 PPS port

Time Outputs

1 TOD with PPS signal

Optional module : IRIG (A or B)

Remote Management

All software management interfaces are remotely accessible via TCP/IP LAN allowing full utilization of Centralized Network Operations Center (CNOC) for monitoring and management.

Environmental

Operating temperature: -5 to 50°C

Humidity: 5 to 95% non-condensing

RoHs compliant

