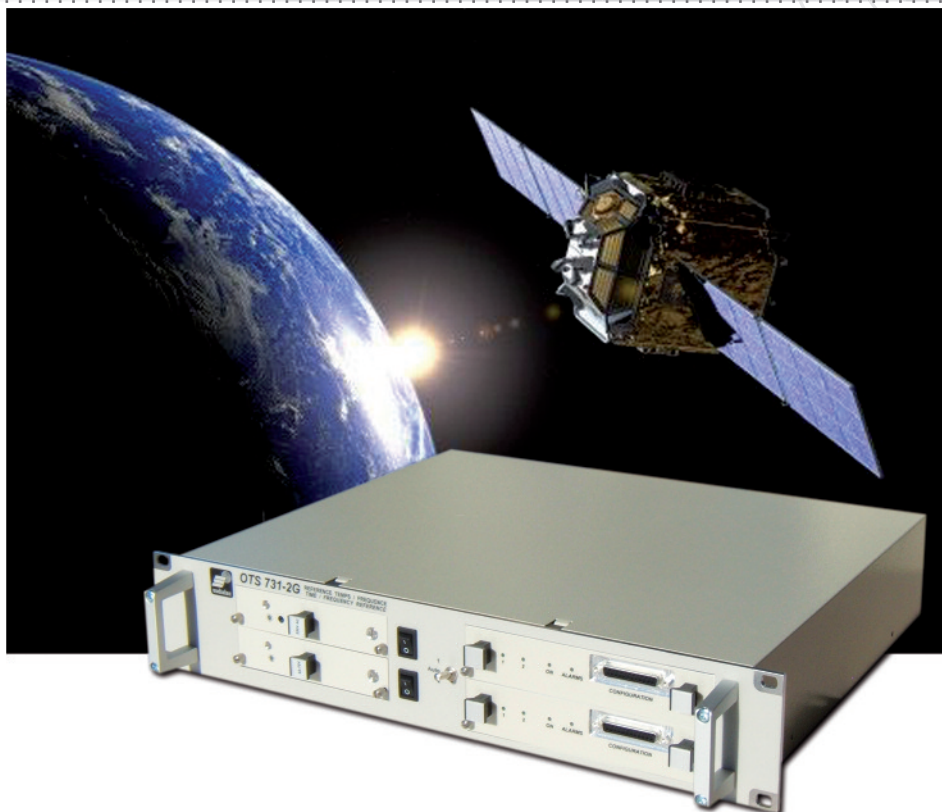


TIME/FREQUENCY GPS REFERENCE

OTS731-2G



Business Unit : **BROADCAST** | SATCOM | TELECOM SYSTEMS

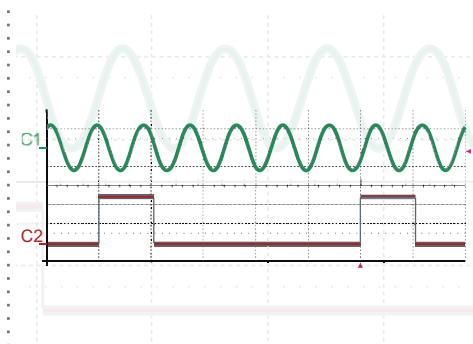


Field applications

- Broadcast : SFN Synchronization of DVB-T/H, DVB-T2, DAB, T-DMB, FM transmitters
- Telecom : GSM, GPRS, 3G, CDMA, WiMAX
- Industry, Laboratory, Production : Distribution of 10 MHz and 1 PPS references

Benefits and key features

- 8 outputs 10 MHz
- 8 outputs 1 PPS
- OCXO very low phase noise and high stability
- Quick GPS Synchronization
- Exclusive dual redundancy
- Redundant power supply
- Hot plug and play
- Switch without phase jump
- Power supply 230VAC or 22-72VDC



PRECISION AND SECURITY

With 8 outputs 10 MHz and 1 PPS, the OTS 731-2G is ideally dimensioned for the multi-transmitters sites : up to 8 equipments (transmitters and/or monitoring equipment) can be synchronized simultaneously on 1 unique GPS reference. Integrating a high performance OCXO and a GPS receiver with quick synchronization, the OTS731-2G can meet the requirements demanded by current standards in terms of stability and phase noise.

The exclusive architecture of the dual redundant OTS731-2G ranks among the safest in its class : each module not only receives data from its associated GPS receiver, but also those of other modules. Thus, the 2 modules can operate over a single antenna and vice versa. There are virtually 4 redundant modules.

The switch from a GPS reference to another is performed automatically and without phase jump.

This dual redundancy can defer maintenance operations without affecting the continuity of service.

With plug-in modules and hot-swappable maintenance costs are optimized by minimizing the duration of action and removing the tooling.

Supervision and configuration are performed simply and intuitively through a serial interface on a PC dedicated software, or through an optional board with embedded HTTP, FTP and SNMP server.

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OTS731-2G



Réf. : DFIB03GB-OTS 731-2G - 12/10/09

TECHNICAL CHARACTERISTICS

Mechanical Features

Dimensions (H x L x P)	2U x 19" x 430 mm
Weight	5 Kg
Supply	230 VAC / 50 Hz ou 22-72 VDC
Consumption (With 2 GPS modules)	40 W

Electronics Features

GPS antenna inputs	
Number	2 (independent)
Connectors	TNC female
Max input level	≤ -40 dBm
Remote supply of the active antenna	5 VDC / 100 mA
Acquisition Time GPS	< 150 s (Time To First Fix) < 15 s after the 1st fix
10 MHz Output	
Number	8
Connector	BNC female
Level	≤ 13 dBm / 50 Ω
Phase noise	< 130 dBc.Hz-1 @ 10 Hz < 145 dBc.Hz-1 @ 100 Hz < 155 dBc.Hz-1 @ 1 kHz
Drift without GPS	Short term : < 5.10-12 / s Long term : < 5.10-10 / jour
1 PPS Output	
Number	8
Connector	BNC female
Level	TTL
Precision	< 200 ns (locked)

Environmental Features

Temperature range	+5 à +45°C (guaranted) / 0 à +50°C (insured)
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Directives & Norms

EMC	89/336/CEE, 73/23/CEE, EN 301489-1, EN301489-14
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OPTIONS

• Supervision board HTTP, SNMP	• GPS antenna
• Supervision software on PC	

QUALITY REFERENCES



CE 0682

FUNCTIONING DIAGRAM

