

STL-SAT Changeover

scambio link terrestre/satellite
coder RDS integrato



Technical features:

This unit realizes an automatic audio changeover between a stereo signal coming from a satellite receiver or other source and a MPX composite signal coming from a STL receiver.

Any of the two audio sources can be selected as the main source and the unit will continuously monitor its parameters, including audio level, pilot level, PI code and RDS quality (only audio level monitoring applies to the stereo audio source).

When any of the user-defined alarm thresholds are exceeded on the main source, the unit will switch to the backup source, getting back to the main, once it recovers.

A GSM modem can be fitted internally for remote control and alarms signaling through SMS.

A unique feature of this unit is the capability of suppressing the incoming RDS signal and superimposing a new, internally generated, one or replacing its AF tables only.

In this latter case, all other preexistent dynamic services will pass through the unit unmodified.

● RDS Encoder

Internal time base or automatically locked, using DSP-based PLL and filters, to the external MPX pilot carrier.

0A and 2A blocks

24 user defined PS strings

24 user defined RT strings

AF mode A and mode B with 25 AF tables

RDS subcarrier level injection 2KHz-12KHz

● STEREO Coder

Crosstalk >60dB

Input sensitivity -10dBm / +15dBm adjustable in 0.5dB steps

Pilot level and phase adjustable from front panel

● MPX Input

Impedance 10Kohm

Accepted level 0dBm (2.2Vpp / 775mVRMS)

● MPX Output

3 independent buffered outputs

Outputs will be bypassed on MPX input in case of equipment failure

Level 0dBm + 1dB / -3dB adjustable through rear panel trimmer

● Remote control and connectivity

GPIO board for switch control and alarms

GSM Modem (optional) for data connection and SMS

Ethernet - TCP/IP

RS-232

● User interface

LCD Display 2 x 20 digit

Keyboard for menu navigation and parameters editing

Indication Led: main channel on air, backup channel on air, alarm, RUN (equipment is functioning properly)

● Configuration software

Window XP, Vista, Windows 7, Windows 8.1, Windows 10 compatible

● Power supply

100-240VAC 50/60Hz

18/32VDC

● Physical dimensions

1 rack unit 19"

44mm x 483mm x 200mm

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STL-SAT Changeover with integrated RDS recoding

In the following example, an MPX distribution backbone, having dynamic RadioText, TA and TMC services, is depicted. It also contains all AF tables for national coverage.

This main MPX signal is drawn along the path, to supply local area repeaters which will keep every dynamic service as the main backbone, while having a smaller number of AF tables. The AF switching speed and listening experience during mobile reception will thus be greatly improved.

