

Multiple LCN Descriptors in SFN Area



>IRRM 2 LCN

The IRRM2-LCN project is a on the fly LCN processor that allows users to analyze and modify the LCN descriptors fields in an input Transport Stream and modify them. No other data in the whole Transport Stream are modified.

Main features

LCN processor

Processed input:

One logical input, selectable from the available physical inputs is processed and sent to out.

TS input analysis:

One logical input, selectable from the available physical inputs is analysed.

The analyzer shows the following SI/PSI from input:

- PAT
- PMT
- SDT
- NIT
- NIT LCN descriptor

On the fly LCN processor:

The on-the-fly processor available allows the user to modify the LCN descriptor sent to out.

For each program in the LCN descriptor the following parameters can be modified:

- LCN number

Management

Alarm matrix management:

Management of the alarm matrix to enable/disable:

Alarm notification
Relay excitement
Trap activation
Output Mask On/Off

Exportable Event log:

Capability to export on text file the event log in memory.

Configuration file import/export:

Capability to import and export on file the machine configuration

SNMP:

Implementation of SNMP tree for device management

- SNMP engine supports global MIBs and tables

GbE management:

- Complete port management at Ethernet/IP level
- MAC address definition
- IP address definition
- Gateway definition
- Subnet mask definition

Satellite Receiver

Tuner:

Frequency range: 10700 to 12750 MHz

Supported standards:

- DVB-S EN 300 421 v1.1.2: Digital Video Broadcasting (DVB); Framing structure, channel coding and modulation for 11/12 GHz satellite services;
- DVB-S2 EN 302 307 v1.1.2: Digital Video Broadcasting (DVB); Second generation framing structure, channel coding and modulation systems for Broadcasting, Interactive Services, News Gathering and other broadband satellite applications.

SAT RF input:

Tuning parameters:

- Frequency;
- Symbol Rate;
- Polarization;
- S/N Threshold;
- Rx Level Threshold;

Monitoring:

- Actual_DVBS_mode;
- Modulation Code;
- Modulation Type;
- Roll Off;
- Pilots Enable Status;
- Rx Level [dBm];
- S/N [dB];
- Tuner Status;
- Tuner Lock Flag;
- Error Values.

DVB-S Demodulator:

- modulation type;
- filter roll-off;
- pilot presence (on/off);
- long frames only;
- Forward Error Correction;
- Viterbi and Reed-Solomon dual decoder;
- Error monitoring;
- LDPC + BCH dual decoder (only DVB-S2)

Physical layer scrambling:

Settings:

- Mode
- First Physical Layer Scrambling sequence.
- Second Physical Layer Scrambling sequence.
- Third Physical Layer Scrambling sequence.

Monitoring:

- Actual Used Code



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RF INPUT
N° connectors: 1
Connector type: LNB (female)
R input: 75 ohm
V input: 1.75V
Frequenza: 10700 to 12750 MHz
DVB-S (ETSI EN 300 421)
DVB-S2 (ETSI EN 302 307)
GIGABIT ETHERNET
N° connectors: 2
Connector: RJ45
Standard supported: IEEE 802.3
ASI INPUT
N° connectors: 2
Connector type: BNC
R input: 75 ohm
V input: 800 mVpp (500 to 1200mVpp)
MPEG-2 TS ISO/IEC 13818-1
CEI EN 50083-9,
ASI OUTPUT
N° connectors: 4
Connector type: BNC
R input: 75 ohm
V input: 800 mVpp (500 to 1200mVpp)
MPEG-2 TS ISO/IEC 13818-1
CEI EN 50083-9,
10MHZ
N° connectors: 2
Connector type: BNC
R input: 75 ohm
V input: 800 mVpp (500 to 1200mVpp)
1 PPS
N° connectors: 2
Connector type: BNC
R input: 75 ohm
V input: 800 mVpp (500 to 1200mVpp)
GPS
N° connectors: 1
Connector type: TNC
Sensitivity: -185 dBW
SERIAL INTERFACE
N° connectors: 1
Connector: DE-9 female
RELAYS
N° connectors: 1
Connector: SUB-D 25p Female
Max voltage: 125VAC / 60VDC @ 0,3A - 30VDC @ 1A
LOCAL USER INTERFACE
LCD
Keyboard