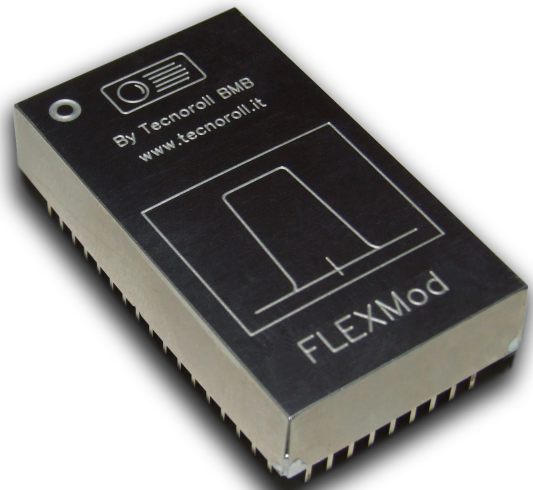




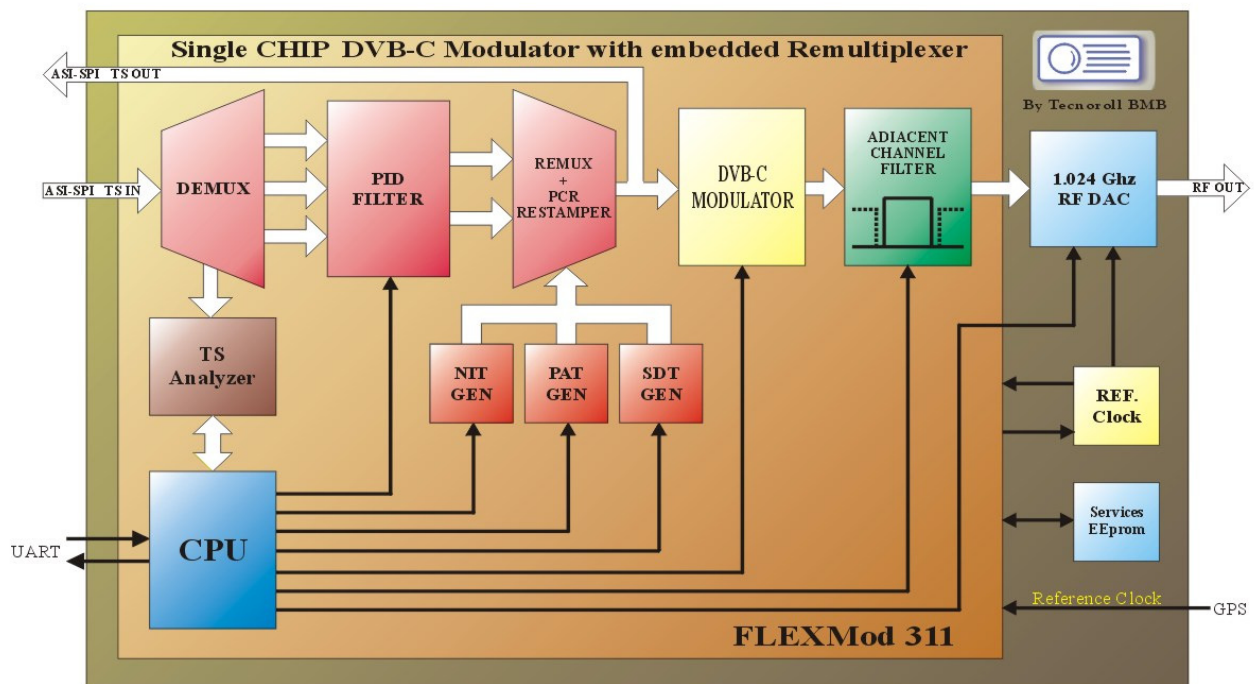
Tecnoroll BMB s.r.l.

Via Olona, 9 - 21040 Veduggio Olona (VA)
☎ +39.0332.402595 - Fax +39.0332.402596
website: www.tecnoroll.it email: info@tecnoroll.it



FLEXMod 311

DVB-C Modulator with embedded Multiplexer



Distributed in Italy by:



MELCHIONI S.p.A.
Via Colletta 37 - 20135 MILANO
Tel. +39-02-57941
Fax +39-02-54134001

General Description

Compact solution for DVB-T modulation: this uModule has a built-in Demultiplexer/Remultiplexer and a DVB-T Modulator.

System includes:

- ASI and SPI TS Inputs
- ASI and SPI TS Outputs
- Automatic recognition, analysis and Demultiplexing of the incoming services
- Visualization of the Input/Output TS bandwidth
- Selection and removal of the unwanted services
- QoS (Quality of Service) function for the selected services
- LCN (Logical Channel Number) Insertion for the selected services
- NIT (Network Information Table) insertion for a correct Bouquet generation
- Automatic service monitoring and PID tracking for the desired services
- SID (Service ID) Remapping for a correct Bouquet generation
- Embedded Remultiplexer for the DVB-T TS reconstruction
- PCR restamper for a correct timing reconstruction
- Non volatile memory for the system configuration
- Easy configuration through asynchronous serial port with high level commands
- No need for additional programming on power-up (once the unit is configured, it works in total autonomy)
- Modulatore ITU-T J.83 Annex A/C, DVB-C (ETS 300 429)
- The internal oscillator can be Locked to an external arbitrary clock source or to a GPS pps reference clock.
- Selectable RF power output up to -7dBm
- Frequency Range 0 - 500 MHz RF out through internal 1 GHz DAC

Mudulator Specification

Modulation type:	ITU-T J.83 Annex A/C, DVB-C (ETS 300 429)
Symbolrates:	Up to 7000 MS/s
Constellation:	16, 32, 64, 128, 256 QAM
Spectrum:	Normal / Inverted
SFN Compatibility mode:	ON / OFF (packet signature for compatibility with DVB-T SFN distribution networks)
PCR Restamper:	ON / OFF
Output Frequency:	0-500 MHz (Internal DDS)
Output Level:	-7 dBm typical
MER:	> dB typical @70MHz

General Specifications

Data Input/Output:	SPI / ASI
Power Supply:	3V3, 1V8, 1V2
Power Consumption:	2,5W
Board Temperature Range:	from 0 to 70° C
Storage Temperature Range:	from -20 to +85° C
Dimensions:	29 x 49,5 x 9,5 mm
Configuration:	Realtime Configuration through Serial Port (LVTTTL)
Weight:	20 gr

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