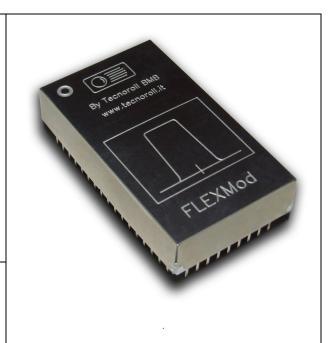
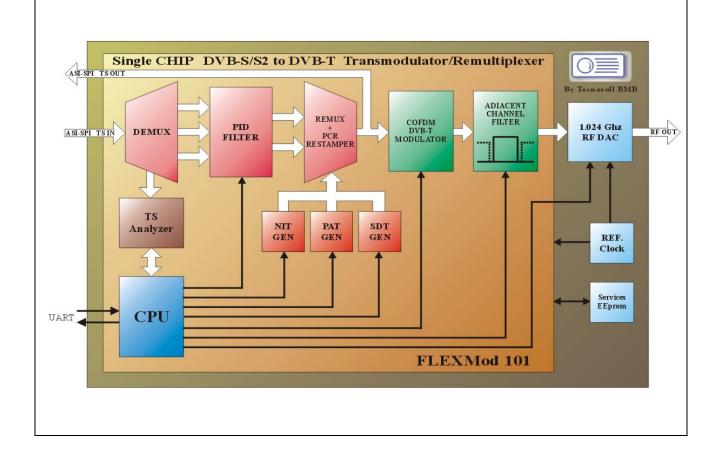


## Tecnoroll BMB s.r.l.

# FLEXMod 101



#### DVB-S/S2/C/C2 to DVB-T Transmodulator with embedded Mux



#### Distributed in Italy by:



MELCHIONI S.p.A.

Via Colletta 37 - 20135 MILANO Tel. +39-02-57941 Fax +39-02-54134001

#### **General Description**

Fully automated DVB-S/S2/C/C2 to DVB-T uModule: this unit automatically converts the transport stream coming from a cable or a satellite tuner into a standard DVB-T RF signal.

#### 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 DVB-Tables Regeneration
- 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)
- COFDM Modulator: DVB-T/H ETSI EN 300 744 V1.5.1
- Enhanced digital filtering for improved adjacent channel packing
- Selectable RF power output up to -7dBm
- Frequency Range 0 500 MHz RF out through internal 1 GHz DAC
- Image signal 500 -850 MHz still usable for many applications

Mudulator Specification
COFDM DVB-T (ETSI EN 300 744)
6 – 7 – 8 MHz
2K -4K- 8K
Alpha 0 – 2 - 4
QPSK 16QAM 64QAM
1/2 2/3 3/4 5/6 7/8
1/4 1/8 1/16 1/32
Normal / Inverted
ON / OFF (packet signature for compatibility with DVB-T SFN distribution networks)
ON / OFF
ON / OFF
0-500 MHz (Internal DDS)
-7 dBm typical
>45 dB typical
General Specifications
SPI / ASI
3V3, 1V8, 1V2
2,5W
from 0 to 70° C
from -20 to +85° C
29 x 49,5 x 9,5 mm
Realtime Configuration through Serial Port (LVTTL)
20 gr

### Distributed in Italy by:



MELCHIONI S.p.A.

Via Colletta 37 - 20135 MILANO Tel. +39-02-57941 Fax +39-02-54134001