

DTT LINE

DVB-T/T2 REMUX SYSTEM UP TO 10W RMS

FOR TERRESTRIAL DIGITAL TV TRANSMISSION
WITH SATELLITE RECEIVERS



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GENERAL INFORMATION - 1.1 Introduction

The remux system is composed of three parts.

- Remux with integrated SAT receivers
- 10W UHF amplifier (optional)
- Bandpass filter with directional coupler (optional)

GENERAL INFORMATION - 1.2 Layout

The following pictures show the size of the three parts.

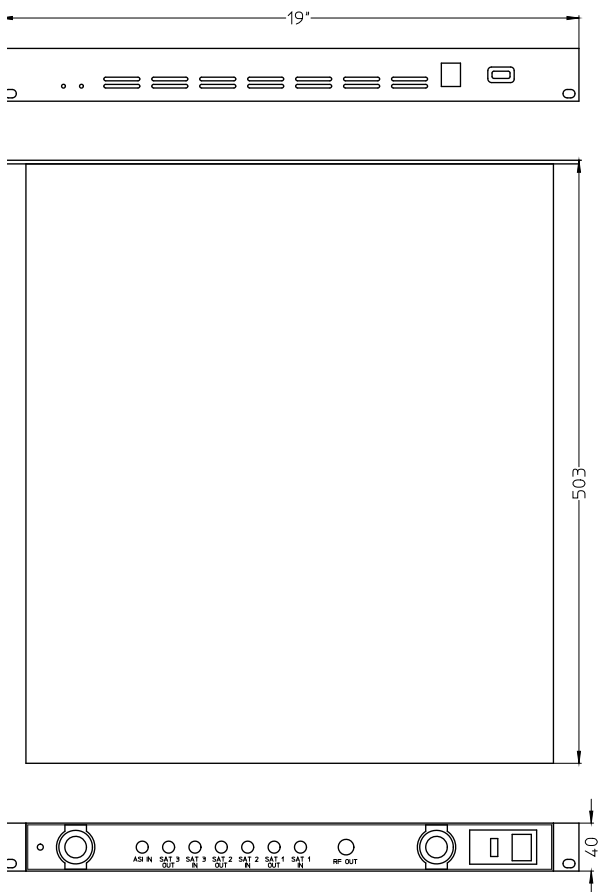


Figura 1.2a Remultiplexing

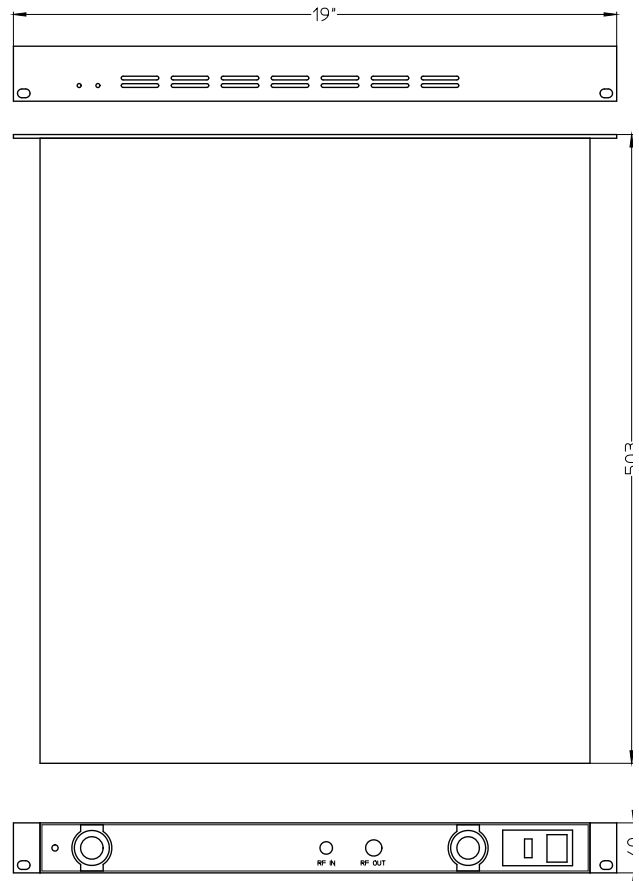


Figura 1.2b Amplifier

GENERAL INFORMATION - 1.2 Layout

The following pictures show the size of the three parts.

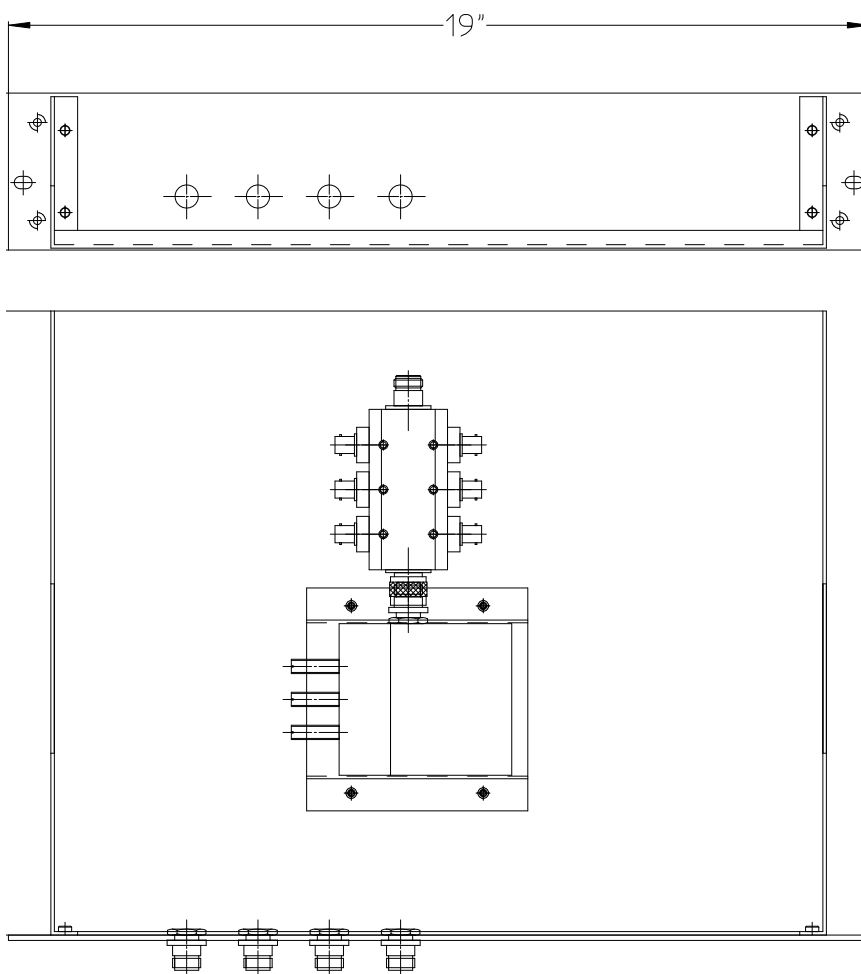


Figura 1.2c Bandpass filter

GENERAL INFORMATION - 1.3 Technical description

The remux system allows to receive up to three satellite bouquets, mux and modulate them in the dvb-t or dvb-t2 format in the uhf band. The result obtained will be that of recreating a single channel containing a series of programs at the user's request in the preferred format.

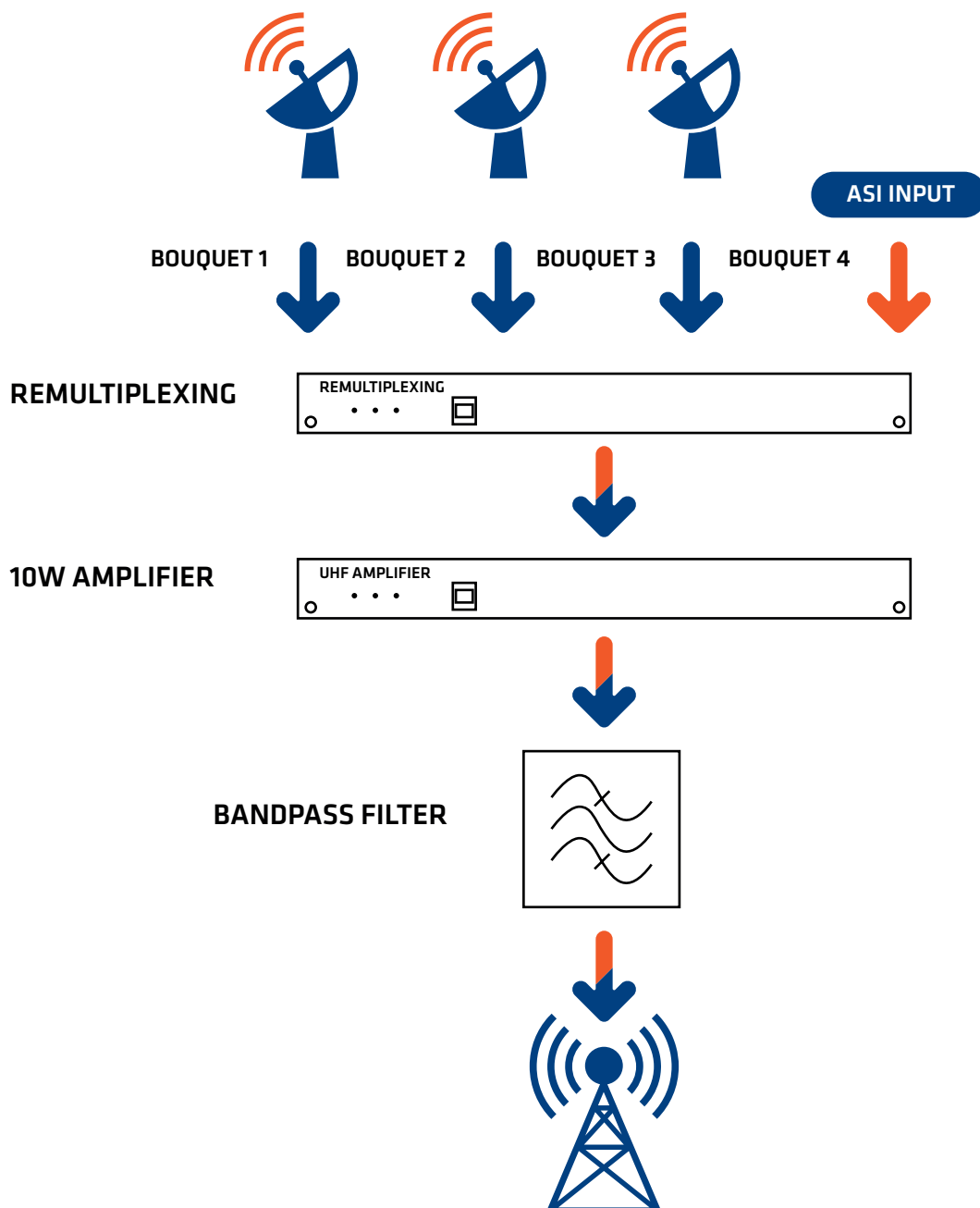


Figura 1.3a Block Diagram

SYSTEM COMPOSITION - 2.1 Remultiplexing

inside the Remultiplexing module the following units are available:

- Up to three SAT receivers
- An ASI input
- A REMUX board
- A multistandard modulator

The transport streams coming from the SAT receivers are processed by a Remultiplexer which allows you to select the programs coming from the sources and to generate a transport stream signal to be sent to the modulator input. The selection of the programs must take into account the maximum modulation capacity of the chosen standard.

Here below an example of Remux application (with two SAT receivers) in DVB-T standard in Italy:

Receiver Sat 1 = 5°O MUX RAI 11637

Rai 1 HD

Rai 2 HD

Rai News 24

Rai 3 TGR Lombardia

Rai 3 TGR Emilia Romagna

Rai 3 TGR Piemonte

Receiver Sat 2 = 9°E MUX MEDIASET 12149

Canale 5 HD

Italia 1 HD

20 Mediaset HD

Mediaset Extra

Rete 4 HD

POSSIBLE COMBINATION TO BE TRANSMITTED:

Rai 1 HD

Rai 2 HD

Rai News 24

Rai 3 TGR Lombardia

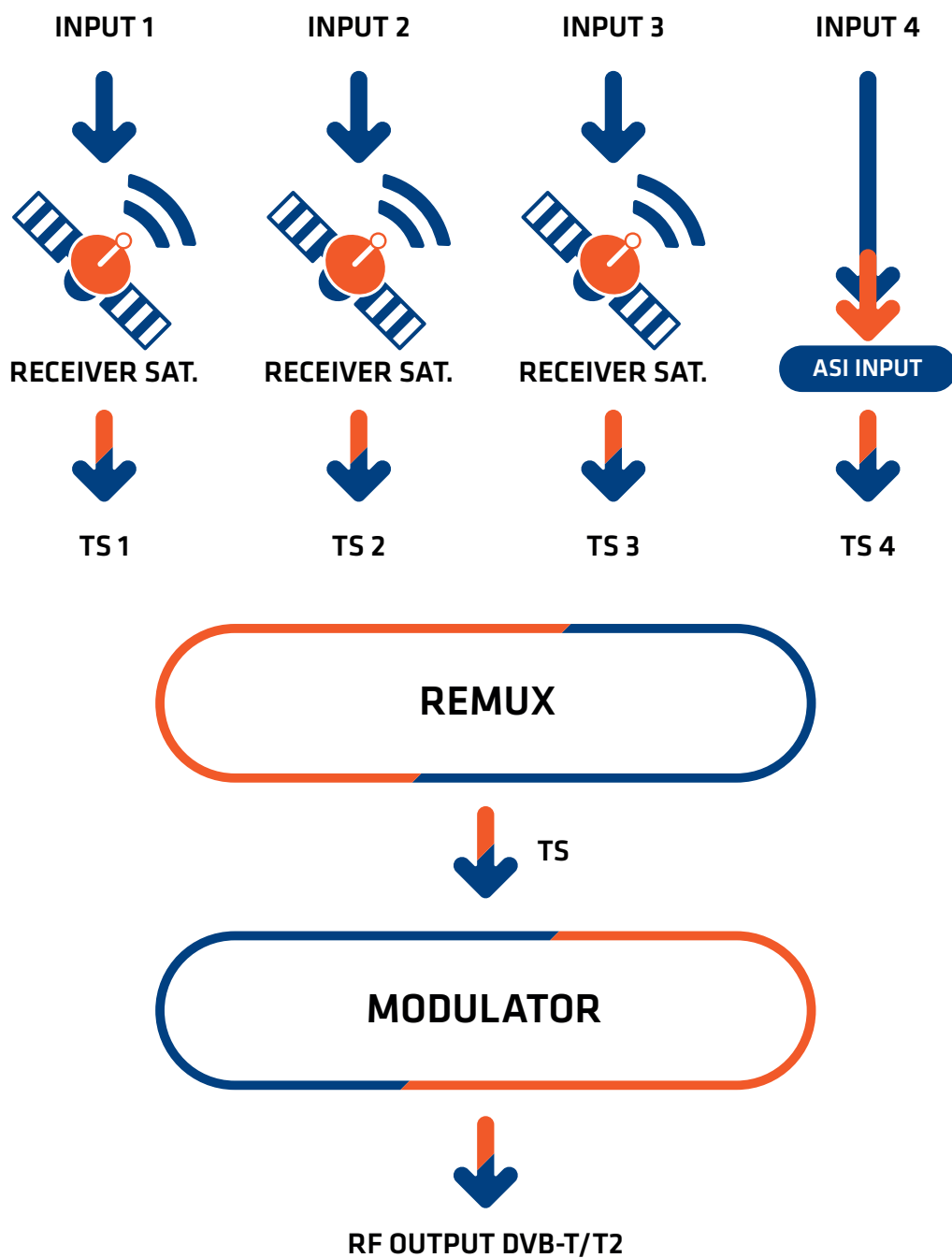
Canale 5 HD

Italia 1 HD

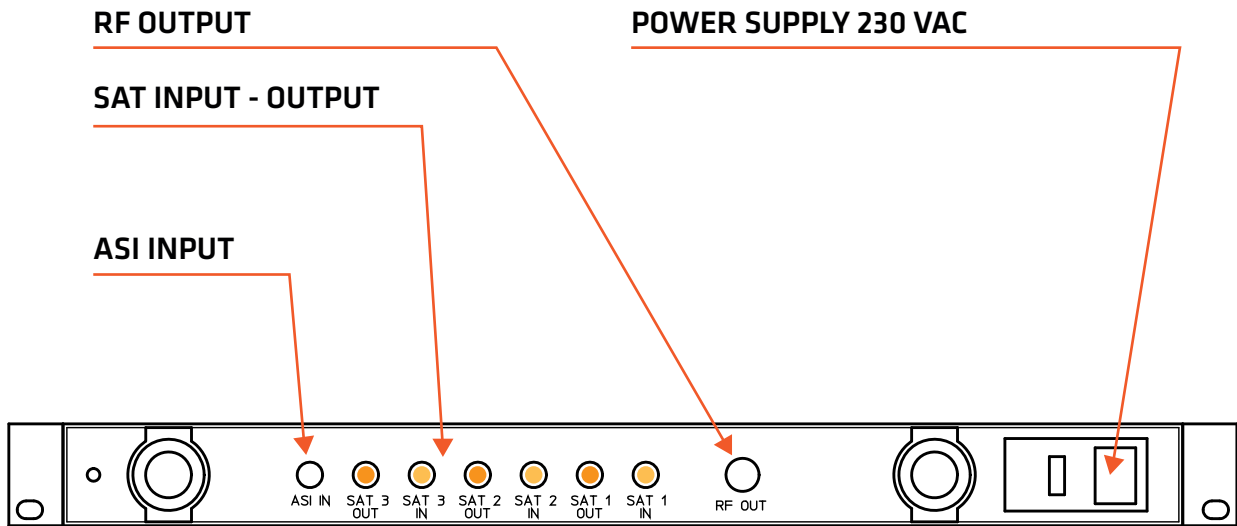
Rete 4 HD

SYSTEM COMPOSITION - 2.1.1 Block diagram

The remux system allows to receive up to three satellite bouquets, mux them, modulate them in the dvb-t or dvb-t2 format and deliver them to a uhf amplifier (existing or to be supplied).
The result obtained will be that of recreating a single channel containing a series of programs at the user's request in the preferred format.



SYSTEM COMPOSITION - 2.1.2 Connections

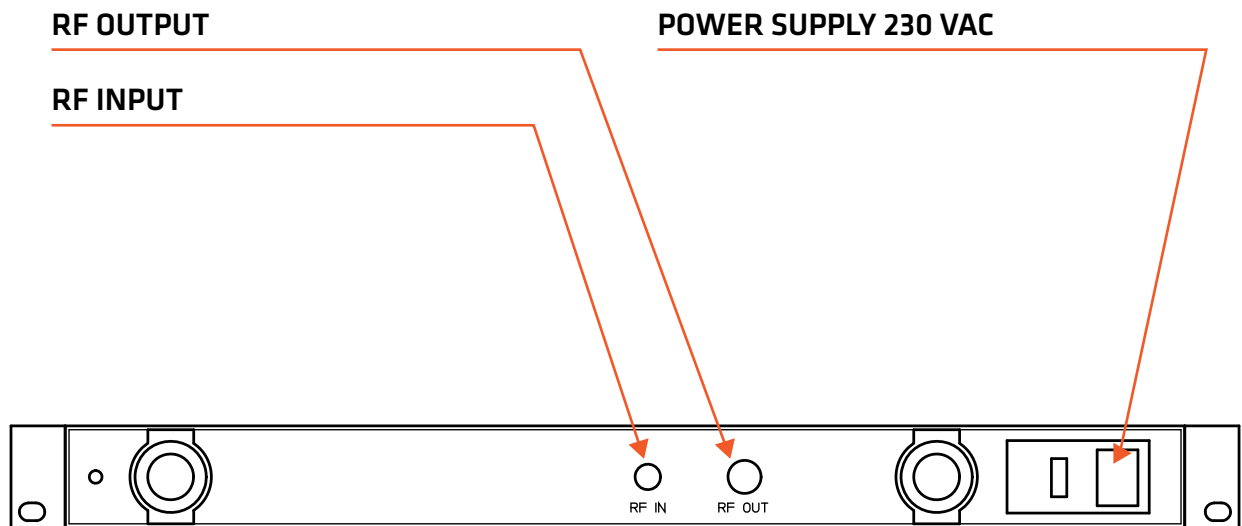


REAR VIEW

SYSTEM COMPOSITION - 2.2 UHF amplifier

The 10w uhf amplifier allows to boost the RF signal from an input level of 100mW up to 10W RMS.

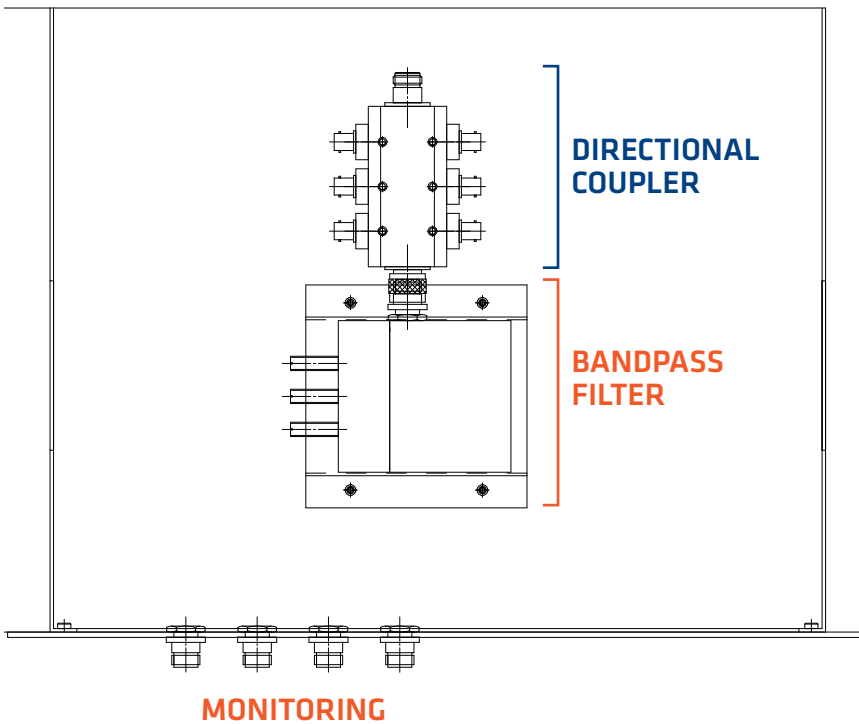
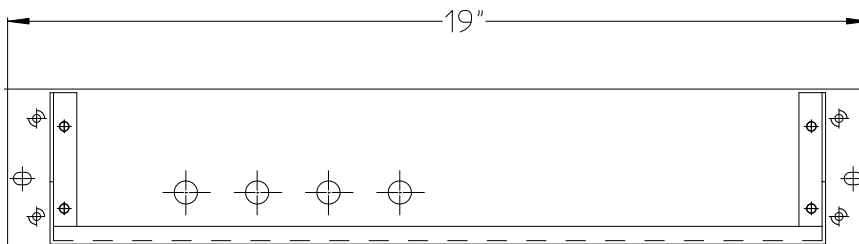
SYSTEM COMPOSITION - 2.2.1 Connections



REAR VIEW

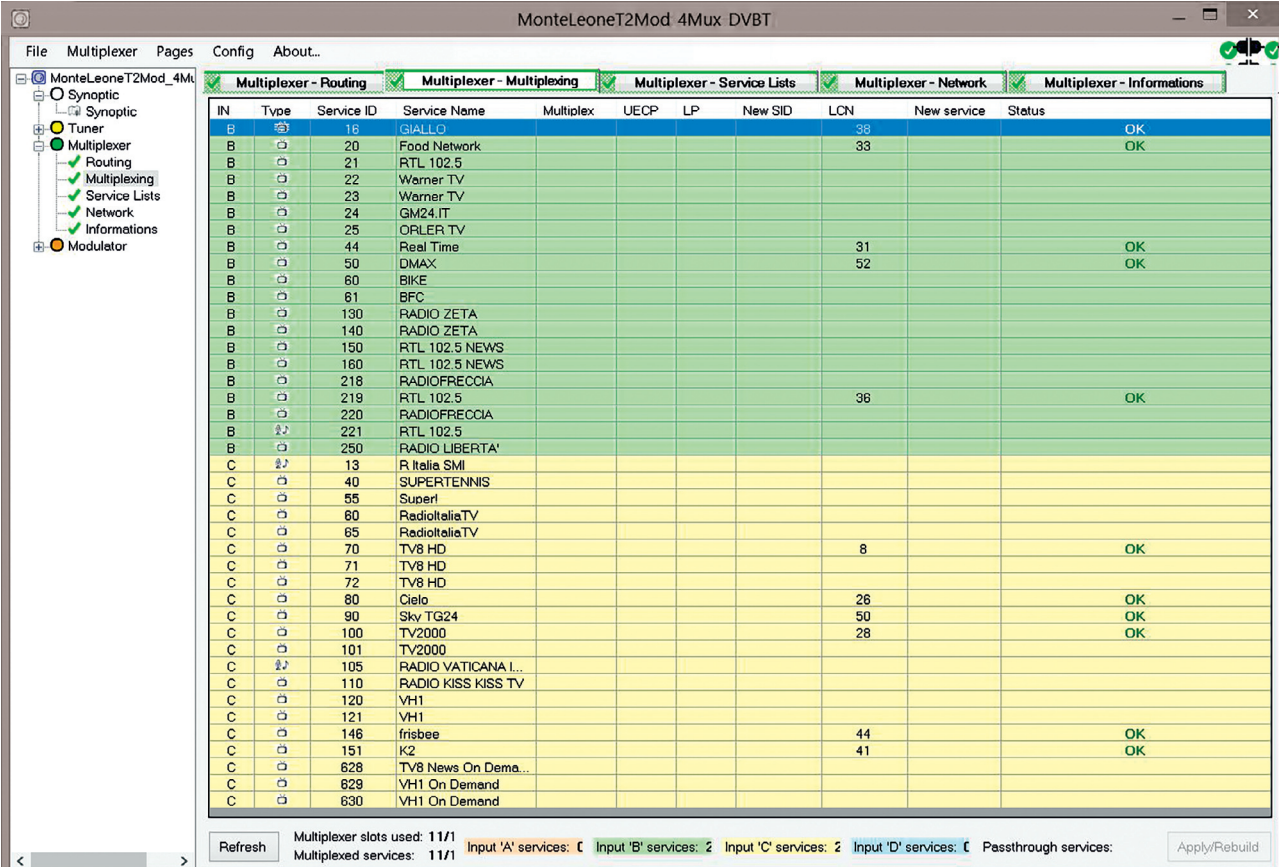
SYSTEM COMPOSITION - 2.3 Bandpass filter

The bandpass filter allows to filter spurious signals generated by the amplifier.
A directional coupler is available in order to monitor the rf signals to antenna.



REMOTE CONTROL - 3.1 GENERAL INFORMATIONS

The system can be controlled remotely via LAN interface.
The RJ45 connector for the remote interface is located on the rear part of the device.



MonteLeoneT2Mod 4Mux DVBT

File Multiplexer Pages Config About...

MonteLeoneT2Mod_4Mux

- Synoptic
- Tuner
- Multiplexer
- Routing
- Multiplexing
- Service Lists
- Network
- Informations
- Modulator

IN	Type	Service ID	Service Name	Multiplex	UECP	LP	New SID	LCN	New service	Status
B	□	18	GIALLO					38		OK
B	□	20	Food Network					33		OK
B	□	21	RTL 102.5							
B	□	22	Warner TV							
B	□	23	Warner TV							
B	□	24	GM24.IT							
B	□	25	ORLER.TV							
B	□	44	Real Time							
B	□	50	DMAX					31		OK
B	□	60	BIKE					52		OK
B	□	81	BFC							
B	□	130	RADIO ZETA							
B	□	140	RADIO ZETA							
B	□	150	RTL 102.5 NEWS							
B	□	160	RTL 102.5 NEWS							
B	□	218	RADIOFRECCIA							
B	□	219	RTL 102.5					36		OK
B	□	220	RADIOFRECCIA							
B	□	221	RTL 102.5							
B	□	250	RADIO LIBERTA'							
C	□	13	R Italia SMI							
C	□	40	SUPER TENNIS							
C	□	55	Super!							
C	□	60	RadioteliaTV							
C	□	65	RadioteliaTV							
C	□	70	TV8 HD					8		OK
C	□	71	TV8 HD							
C	□	72	TV8 HD							
C	□	80	Cielo					26		OK
C	□	90	Sky TG24					50		OK
C	□	100	TV2000					28		OK
C	□	101	TV2000							
C	□	105	RADIO VATICANA I...							
C	□	110	RADIO KISS KISS TV							
C	□	120	VH1							
C	□	121	VH1							
C	□	146	frisbee					44		OK
C	□	151	K2					41		OK
C	□	628	TV8 News On Dema...							
C	□	629	VH1 On Demand							
C	□	630	VH1 On Demand							

Refresh Multiplexer slots used: 11/1 Multiplexed services: 11/1 Input 'A' services: 0 Input 'B' services: 2 Input 'C' services: 2 Input 'D' services: 0 Passthrough services: Apply/Rebuild