



MUX 310

USER'S MANUAL



Chapter 1. Installation.

1.1. Safety rules

Please read the safety rules carefully before installing this equipment.

- 1.- Respect ventilation slots of this equipment. Avoid covering them with any object.
- 2.- Keep clean and without obstacles a minimum radius of 40 cm around this equipment.
- 3.- Do not place any heating source near this equipment.
- 4.- Do not install this equipment outside its temperature range.
- 5.- Avoid placements where liquids could be poured in or with important temperature changes.
- 6.- Never open the device by yourself. Refer servicing to qualified staff only.
- 7.- Never open the device when it is connected to electrical current.
- 8.- During connection it is suitable that the equipment is switched off and not connected to electrical current.
- 9.- Respect electrical security rules during the assembly. Use materials that fulfill laws in force.
- 10.- Connecting pin (power plug) must be quickly and simply accessible in order to assure a fast disconnection.
- 11.- To prevent shock hazard, do not touch the power plug with wet hands. Always unplug the receiver before working on the connections.
- 12.- Do not put any heavy objects over this equipment; the equipment could be damaged.

1.2. Complete Content



MUX 310



User's manual



Power cable



Adapters for frame FRA 300

1.3. Description and connections

With this combiner, it is possible to mix signals coming from different head end systems, in order to obtain all the generated TV channels in a single cable.

The combiner MUX 310 receives up to four RF signals in the TV band; it mixes them, and amplifies them to have them ready at the output.

Each input has an attenuator that works in the whole band and allows regulation the gain applied to the signals coming through it. With this regulation, you can obtain at the output all the signals with the same level.

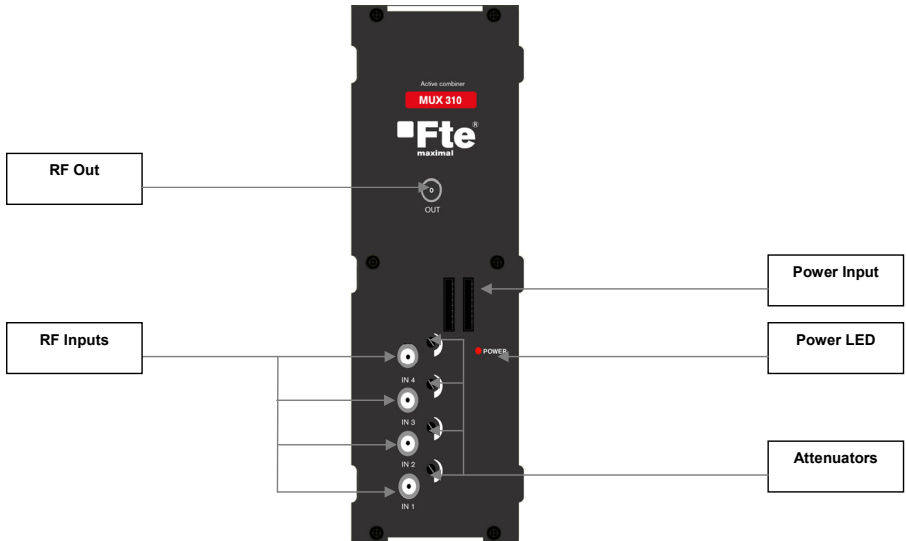
The equipment has been designed in order to each input comes from an equipment of 6 channels of the DVB 310 S or DVB 310 T, therefore with a MUX 310 it is possible to mix in an optimal manner up to 24 TV channels.

The concept of mixer is different than the concept of amplifier. The MUX 310 is not though to amplify the signals in order to distribute them, but combining them keeping a quality parameters enough for amplifying all together once they are mixed.

Due to the equipment of 6 receivers with a Power Supply occupy the entire available space in a FRA 300 frame, the MUX 310 is supplied with all the needed pieces for extending the frame and allowing placing one space more.

In this manner, we achieve that a frame for 6 modules and Power Supply (total 7 modules) becomes a frame for 8 modules.

It is important to highlight that the combiner MUX 310 is fed from the same SPS 310 which feeds the rest of the modules. Due to that, the MUX 310 has been designed with Low Consumption and using as feeding the voltage of the via 23 VDC, used exclusively for the feeding of the LNC in the rest of the modules, disposing normally of power enough in the Power Supply.



1.4. Accessories and installation examples

Accessories



UHF Outdoor Antenna
Mod. EVO 45 Code 9003910



Offset Dish 80cm
Mod. PR 80 AB Code. 0798021



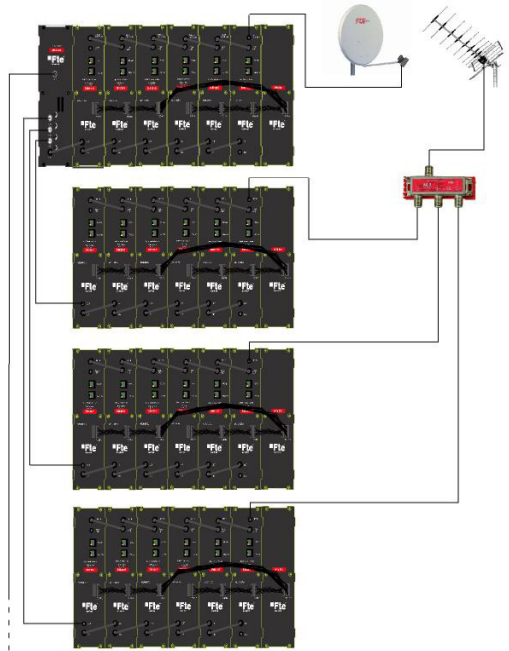
Digital satellite receiver
Mod. DVB 310 S Code. 2003310

Installation example

Examples of installations of MUX 310 combining and amplifying the signal coming from four Kits of 310 Series. In the example we can see one Kit DVB 310 S and three Kit DVB 310 T. Each Kit is made of 6 modules and its Power Supply.

The signal that is coming from each Kit is connected to each one of the four inputs of MUX 310.

At the output, all the generated TV channels are available. Through the regulation, it is allowed having all the signals with the same level at the output.



Chapter 2. Technical data

Reference	MUX 310
Code	2003518
N° Inputs /N° Outputs	4/1
Frequency Margin (MHz)	47-862 MHz
Connectors	F female
Gain (dB)	20
Regulation Margin (dB)	10
Output Level DIN 45004B (dBuV)	114
Power Supply	SPS 310
Consumption	30 VDC - 0 mA
	21 VDC - 350 mA
	12 VDC - 0 mA
	5 VDC - 0 mA
Dimensions (mm)	75 x 265 x 150

Chapter 3. Conformity declaration

CONFORMITY DECLARATION



"WE, FTE MAXIMAL, DECLARE THAT THE PRODUCTS
MUX 310
ARE IN CONFORMITY WITH FOLLOWING DIRECTIVES
Low Voltage Directive 2006/95/EC
EMC Directive 2004/108/EC"

If you wish a copy of the conformity declaration, please contact to the company