



## Twin processor Frequency shifting for any modulation

The module processes 2 input channels, either analogue or digital, irrespective of the service type, to work either as a channel converter (using different input and output channels) or as an amplifier (using the same input and output channel).

---

<b>Ref.</b>	564980
<b>EAN13</b>	8424450170069

---

### Packaging info

---

<b>Box</b>	1 pcs.
------------	--------

---

### Physical data

---

<b>Net weight</b>	916.00 g
<b>Gross weight</b>	1,100.00 g
<b>Width</b>	50.00 mm
<b>Height</b>	219.00 mm
<b>Depth</b>	178.00 mm
<b>Main product weight</b>	842.00 g

---

### Highlights

---

- SAW (Surface Acoustic Wave) filtering. Provides a high selectivity, avoiding adjacent channel interference.
- Adjustable slope to balance signal inside the bandwidth.
- Can be remotely controlled using CDC (Headend control)

## Main features

---

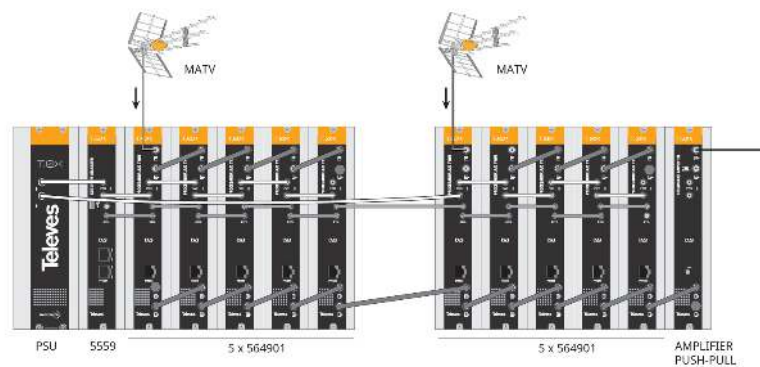
- In converter mode, it allows the assignment of an output channel different from the input channel (Twin).
- In amplifier mode, it allows the equalization and filtering of a Digital Multiplex to adapt it to the levels of the other signals.

## Application example

---

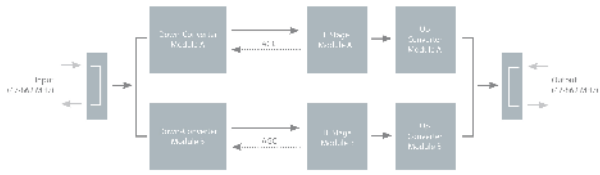
### Distribution of 20 channels.

This figure depicts a headend configured for distributing 10x2 channels processed. It is necessary to take into account the constraint of 4 A per each one of the outputs of the PSU.



## Graphic documentation

---



**Block diagram**

## Technical specifications

Down-Converter	Input frequency (selec.)		MHz	46...862
	Input level		dBmV	-10 to 20*
	Frequency steps (selec.)	Analog	KHz	250
		Digital		166.66 / 125 / 25
	IN/OUT Connectors		dB	0 ± 3
	Input impedance		dB	50 a 80
	Input line powering for preamps (< 50 mA)		MHz	6 /7/ 8
	Input loop-through gain		Vdc	0, 12, 24
Intermediate freq.	Bandwidth		MHz	6
UP-Converter	Output frequency (selec.)		MHz	46 - 862
	Frequency steps (selec.)		KHz	125 (digital), 166 (digital), 250 (analógico)
	Phase noise (typ.)		dBc/Hz	80 @10KHz
	Output level regulation		dB	> 15
	Spurious level (min.)		dBc	55
	END (Equivalent Noise Degradation)		dB	< 2
	Output loop-through losses (typ.)		dB	≤ 1,5
	Return losses (typ.)		dB	> 12
General	Consumption (typ.)		mA	400 @ 24V (LNB power OFF) 450 @ 24V (LNB power ON)
	Protection level		IP	20