

# DigiSel\_Repeater

## TETRA\_TETRAPOL\_DMR

RF-RF / DIGITAL SELECTIVE CHANNEL REPEATER  
380\_470 MHz



## Key features

The DigiSel is a **Digital repeater** which can be configured either in **channel or band selective** modes. It assures the services continuity Tetra /Tetrapol/DMR in the places or the infrastructures insufficiently covered.

It is a **Smart** and plug and play **product**, with easy **settings for the commissioning**. The filters, the gain and the frequency band can be parameterized remotely through the monitoring interface.

## Benefits

- ☑ Three power ranges
- ☑ Adjustable channels
- ☑ Gain from to +50 to +90 dBm
- ☑ Indoor or Outdoor (IP65)
- ☑ Box ou Rack version



# Specifications

## Technical characteristics

<b>Frequency band (MHz)</b>	<b>380/470 MHz</b>		
	<b>UPLINK</b>	<b>DOWNLINK</b>	
<b>Frequency range</b>	380 - 385 MHz	390 - 395 MHz	
	385 - 390 MHz	395 - 400 MHz	
	410 - 415 MHz	420 - 425 MHz	
	415 - 420 MHz	425 - 430 MHz	
	450 - 455 MHz	460 - 465 MHz	
	455 - 460 MHz	465 - 470 MHz	
<b>Power</b>	+17 dBm	+24 dBm	+36 dBm
<b>Max gain (dB)</b>	From + 50 to + 80 dB (step 0.5 dB)	From + 55 to + 85 dB (step 0.5 dB)	From + 60 to + 90 dB (step 0.5 dB)
<b>Ripple in the bandwidth</b>	≤ ± 2 dB	≤ ± 2 dB	≤ ± 1 dB
<b>Noise factor</b>	≤ 6 dB @ Gain max		
<b>Mode mute setting range (On MS input)</b>	-70 dBm and -25 dBm		
<b>Monitoring</b>	On LAN IP –RJ45 IP protocol; HTTP Web; SNMP		

## Band selective

<b>Number of band</b>	From 1 to 4
<b>Bandwidth</b>	Adjustable from 200 KHz to 5 MHz

## Channel selective

<b>Dynamic Filters (Dowlink) To120 points*</b>	Adjustable filter gain in local or remote access Channels and bandwidth configurable on-site and remotely
<b>Channel width</b>	Adjustable from 12.5 KHz to 100 KHz
<b>Attenuation for each channel</b>	Adjustable from 0 dB to -100 dB

\*See next to the filter characteristics

**Filter characteristics downlink : Number of channels and bandwidth :** *The available resources in the FPGA are represented by points. Every filter consumes a number of points: des points.*

<b>Bandwidth</b>	<b>12,5 kHz</b>	<b>25 kHz</b>	<b>50 kHz</b>	<b>90 kHz</b>
<b>Consumption of point</b>	10	15	20	35
<b>Number of dynamics Filters max</b>	12	8	6	3
<b>Time group</b>	De 25 à 45µs selon configuration			

### Mechanical characteristics

<b>Box version</b>	<b>+17 +24</b>	<b>Dimensions (H x P x l)</b>	550 mm x 105,2 mm x 350 mm
		<b>Weigh</b>	17 Kg
	<b>+36</b>	<b>Dimensions (H x P x l)</b>	550 mm x 140,2 mm x 350 mm
		<b>Weigh</b>	23 Kg
<b>Rack version</b>	<b>+17 /+24</b>	<b>Dimensions (H x P x l)</b>	2U 83.5 mm x 502 mm x 440 mm/19"
		<b>Poids</b>	A venir
	<b>+36</b>	<b>Dimensions (H x P x l)</b>	3U 128 mm x 502 mm x 440 mm/19"(UL/DL)
		<b>Weigh</b>	17 Kg
<b>Connectors</b>		N_Female	
<b>RAL</b>		9002	
<b>Protection class</b>		IP65	
<b>Temperature range</b>		- 25°C / + 50°C	
<b>Cooling systeme</b>	<b>Box version</b>	Natural convection of cooling with dissipator of heat	
	<b>Rack version</b>	Internal fan	

### Electrical characteristics

<b>Supply voltage</b>	230 Vac or 48 Vdc or 24 Vdc				
<b>Power consumption</b>	UL	DL	+17dBm	+24dBm	+36dBm
			72 W	85 W	120 W
			+17dBm	+24dBm	+36dBm
			85 W	100 W	135 W

More informations : [www.see-critical.com](http://www.see-critical.com)

