

DATASHEET	Pages : 5 Référence : 010069E
RF/RF TETRAREP REPEATER	Date of application : 19/09/2016

❖ **General description :**

The **RF/RF TETRA/TETRAPOL** repeater assures the services continuity Tetra/Tetrapol in the places or the infrastructures insufficiently covered.

Its design and easy implementation allow the use with near or far terminals from radio equipment's without risk of saturation.

Associated with antenna boosters, it can ensure greater inner covers such as multi-level parking, lots, buildings, shops, museums, theatres, subway corridor...

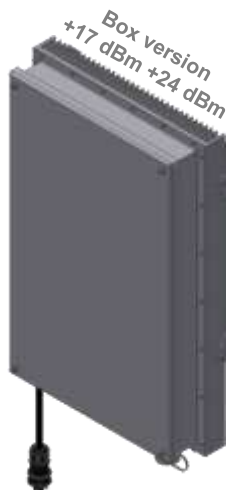


📶 Frequencies and power					
RF POWER RANGE		+17 dBm	+24 dBm	+37 dBm	
Frequency band		Up - Link (RX) 380 - 385 MHz 385 - 390 MHz 410 - 415 MHz 415 - 420 MHz 450 - 455 MHz 455 - 460 MHz		Down - Link (TX) 390 - 395 MHz 395 - 400 MHz 420 - 425 MHz 425 - 430 MHz 460 - 465 MHz 465 - 470 MHz	
Bandwidth <small>To specify during the ordering</small>		From 1 to 5 MHz Filter SAW adjusted			
Ripple in Bandwidth		≤ ± 2 dB	≤ ± 2 dB	≤ ± 1 dB	
Class of amplification		A		AB	
Gains		50 dB to 80 dB Accuracy ± 5 dB (Step 0.5dB)	55 dB to 85 dB Accuracy ± 5 dB (Step 0.5dB)	60 dB to 90 dB Accuracy ± 5 dB (Step 0.5dB)	
Noise factor		≤ 6 dB @ Gain max			
Mode Mute setting range <small>(on MS input)</small>		-70 dBm and -25 dBm			
Nominal output power UL or DL	1 channel	+ 17 dBm	+ 24 dBm	+ 37 dBm	
	2 channel	+ 14 dBm	+ 21 dBm	+ 34 dBm	
	4 channel	+ 11 dBm	+ 18 dBm	+ 31 dBm	
	8 channel	+ 8 dBm	+ 15 dBm	+ 28 dBm	
	16 channel	+ 5 dBm	+ 12 dBm	+ 25 dBm	
	32 channel	+ 2 dBm	+ 9 dBm	+ 22 dBm	
IP3		> 40 dBm	> 51 dBm	> 69 dBm	
Downlink / uplink rejection		> 90 dB	> 90 dB	> 110 dB	
Group delay		< 4 μs			
Connector RF		N female 50Ω			

Mechanical and electrical characteristics						
Supply voltage		230 Vac integrated or 48 Vdc or 24 Vdc				
Power consumption		DL	+17dBm	+24dBm	+37dBm	
		UL	+17dBm	72 W	85 W	120 W
			+24dBm	85 W	100 W	135 W
			+37dBm	120 W	135 W	150 W
Dimensions (H x P x I)	Box	+17/24 dBm	550 mm x 105,2 mm x 350 mm			
		+37 dBm	550 mm x 140,2 mm x 350 mm			
	Rack	+17/+24 dBm	2U 83.5 mm x 502 mm x 440 mm/19"			
		+37 dBm	3U 128 mm x 502 mm x 440 mm/19" (UL/DL)			
Weight	Box	+17/+24 dBm	17 Kg			
		+37 dBm	23 Kg			
	Rack	+17/+24 dBm	Coming			
		+37 dBm	17 Kg			
Connectors		N_Femelle				
RAL		9002				
Protection	Box version		IP65			
	Rack version		IP20			
Temperature range		- 25°C / + 50°C				
Cooling system	Box version		Natural cooling convection			
	Rack version		Internal fan			
Monitoring		On LAN -RJ45 MODEM 2G/3G/4G (Protocol IP ; HTTP Web ; SNMP)				



Rack version +17 dBm +24 dBm

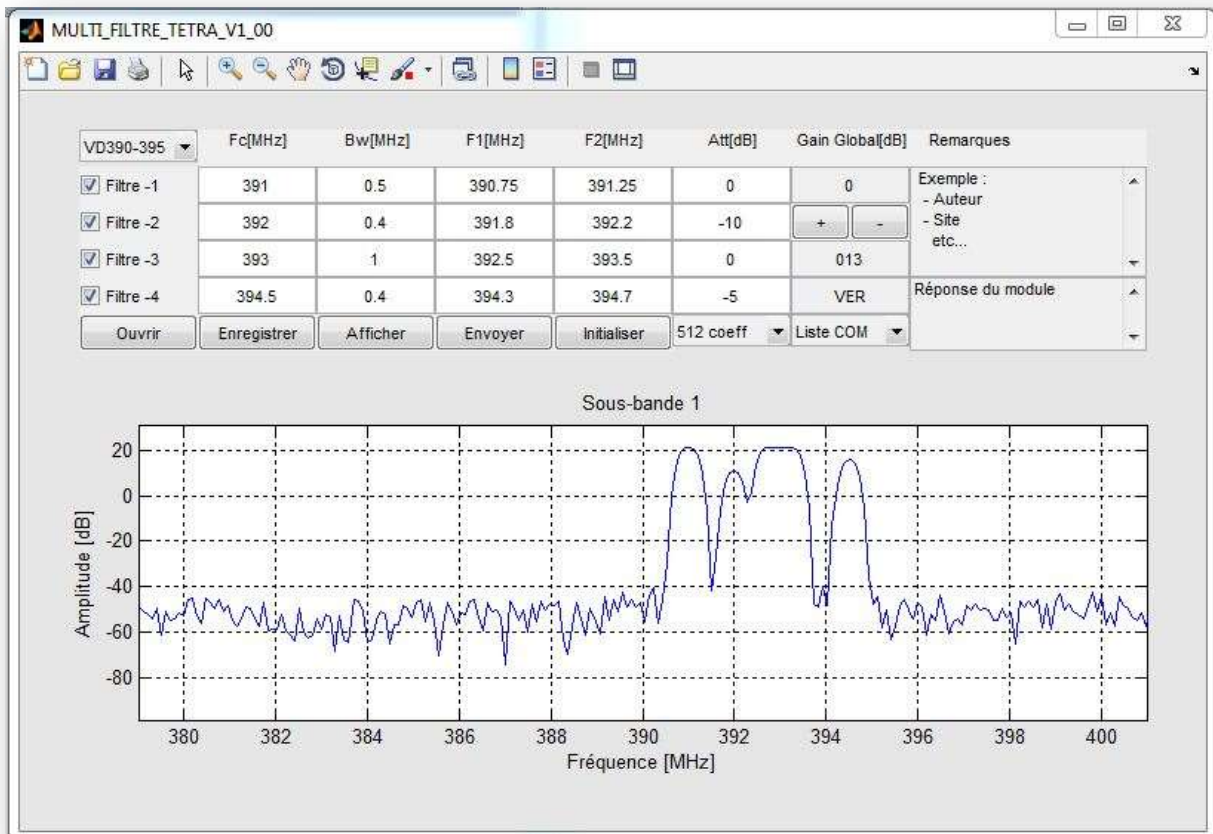



Box version
+17 dBm +24 dBm




Box version
+37 dBm

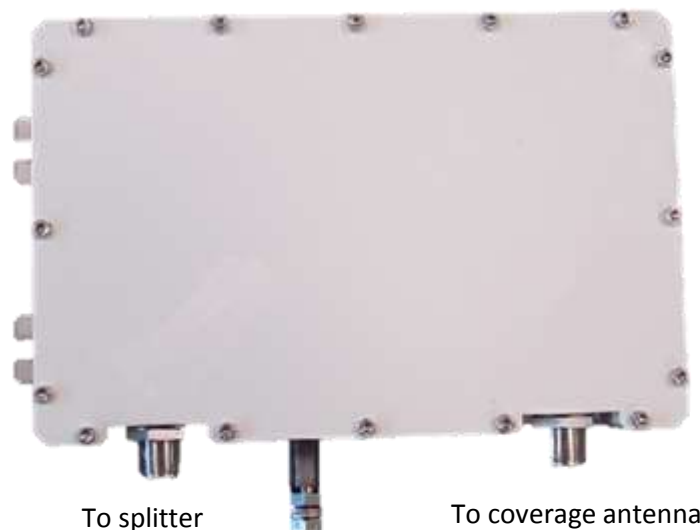
DIGITAL FILTER (Optional)		
Features	Specified values	
Number of rejections filters		
4		
Bandwidth	Bandwidth	Adjustable from 300 kHz to 5 MHz (step 12.5 kHz)
	Central frequency	Ajustable from f_0 to $f_0 + 5$ MHz (step 12.5 kHz)
	Attenuation	Adjustable from 0 dB to 30 dB
Group delay		$\leq 5 \mu s$



 SPLITTER (Optional) Not available for the 37 dBm version	
Features	Specified values
Frequency band	380 – 470 MHz
Number of ways	4 ways
Supply	24 to 30V from Repeater. Each booster is power online, with inhibit alarm when it's not connected.
Alarm to the Repeater	Monitoring of consumption each booster by way Red green indicator on each exit
Consumption	30W Max
Servitudes	168x 216 x 67mm
Weight	1 Kg
Connectors	N female
Protection class	IP 34
Temperature range	0°C à +45 °C
Cooling	Natural convection



 BOOSTER (Optional) Not available for the 37 dBm version															
Features	Specified values														
Frequency band	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Up Link</th> <th style="text-align: center;">Down link</th> </tr> </thead> <tbody> <tr> <td>380 à 385 MHz</td> <td>390 à 395 MHz</td> </tr> <tr> <td>385 à 390 MHz</td> <td>395 à 400vMHz</td> </tr> <tr> <td>410 à 415 MHz</td> <td>420 à 425 MHz</td> </tr> <tr> <td>415 à 420 MHz</td> <td>425 à 430 MHz</td> </tr> <tr> <td>450 à 455 MHz</td> <td>460 à 465 MHz</td> </tr> <tr> <td>455 à 460 MHz</td> <td>465 à 470 MHz</td> </tr> </tbody> </table>	Up Link	Down link	380 à 385 MHz	390 à 395 MHz	385 à 390 MHz	395 à 400vMHz	410 à 415 MHz	420 à 425 MHz	415 à 420 MHz	425 à 430 MHz	450 à 455 MHz	460 à 465 MHz	455 à 460 MHz	465 à 470 MHz
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455 à 460 MHz	465 à 470 MHz														
Ripple in Bandwidth	5 MHz														
Gain	30 dB (adjustable automatically according to the number of channels)														
Nominal output power	1 channel	+10 dBm													
	2 channel	+7dBm													
	4 channel	+4 dBm													
	8 channel	+1 dBm													
Supply	télé alimentation via le répartiteur 1→4														
Consumption	3,5 W														
Servitudes	159x 216 x 84 mm														
Weight	1 KG														
Connectors	N female														
Protection class	IP 34														
Temperature range	0°C à +45 °C														
Cooling	Natural convection by dissipator														



To splitter

To coverage antenna