Repeater Tetra 380-470 MHz

TETRA Power +17, +23 or +36 dBm

Key Features

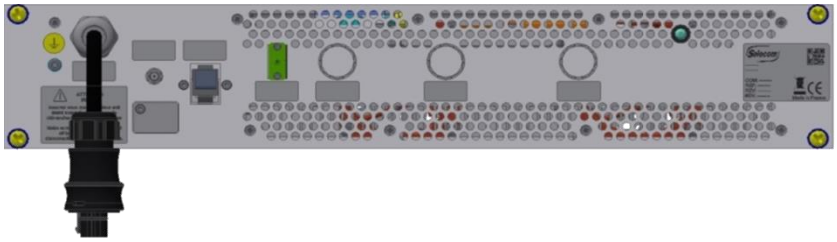
The **TETRAREP RF / RF repeater** ensures the continuity of the **Tetra / Tetrapol** service in places or infrastructures with insufficient coverage.

Its design and ease of implementation allow quality operation with terminals used near radio equipment without risk of saturation.

Combined with antenna boosters, it can provide greater interior coverage in multi-level car parks, buildings, shops, performance halls, metro corridor, etc.

Benefits

- ☑ large choice of powers
- ☑ Low consumption
- ☑ Indoor and Outdoor
- ☑ Easy setting
- ☑ High gain



Specifications

Technical characteristics

Frequency range		**380/470 MHz**		
Frequency Bands	***UPLINK***	380 - 385 MHz		
		385 - 390 MHz		
		410 - 415 MHz		
		415 - 420 MHz		
		450 - 455 MHz		
		455 - 460 MHz		
	DOWNLINK	390 - 395 MHz		
		395 - 400 MHz		
		420 - 425 MHz		
		425 - 430 MHz		
		460 - 465 MHz		
		465 - 470 MHz		
Bandwidth *To be specified when ordering*		From 1 to 5 MHz SAW filter adjusted		
Power range		+17 dBm	+24 dBm	+36 dBm
Amplification class		A		AB
Adjustable gains		50dB à 80dB Precision ± 5 dB (Pas 0.5dB)	55dB à 85dB Precision ± 5 dB (Pas 0.5dB)	60dB à 90dB Precision ± 5 dB (Pas 0.5dB)
Bandwidth Ripple		≤ ± 2 dB	≤ ± 2 dB	≤ ± 1 dB
Rated output power UL or DL	*1 channel*	+ 17 dBm	+24 dBm	+ 36 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
Noise factor		*≤ 6 dB @ Max gain*		
Adjustment range of Silent mode *(MS Enter)*		70 dBm et -25 dBm		
Impedance I/O		50 Ω		
Delay		≤ 4 µs		

Mechanical characteristics

RF Connector			N-Type (Female)
Dimensions (H x P x l)	***Box***	*+17/24 dBm*	550 mm x 105,2 mm x 350 mm
		+36 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”
		+36 dBm	3U 128 mm x 502 mm x 440 mm/19” (UL/DL)
Weight	***Box***	*+17/+24 dBm*	17 Kg
		+36 dBm	23 Kg
	Rack	*+17/+24 dBm*	To come up
		+36 dBm	17 Kg
Protection	***Box***		IP65
	Rack		IP20
Cooling system	***Box***		Natural cooling convection
	Rack		Internal fan
Temperature range			- 25°C / + 50°C
RAL			9002
Relative humidity range			≤95%
Monitoring			On LAN -RJ45 Modem 2G/3G/4G (IP protocol ; HTTP Web ; SNMP)

Electrical Characteristics

Power supply			230 Vac integrated or 48 Vdc or 24 Vdc	
Power consumption	UL \ DL	+17dBm	+24dBm	+36dBm
	+17dBm	72 W	85 W	120 W
	+24dBm	85 W	100 W	135 W
	+36dBm	120 W	135 W	150 W

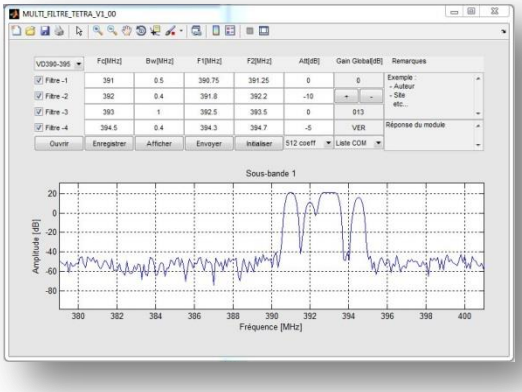
Digital Filtering Module (option)

Number of rejector filters	4
Bandwidth	Adjustable from 300 kHz to 5 MHz (steps of 12.5 kHz)
Central Frequency	Adjustable from f0 to f0 + 5 MHz (steps of 12.5 kHz)
Attenuation	Adjustable from 0 dB to -30 dB
Group delay	≤ 5 µs

Splitter (option)

Frequency band	**380 - 470 MHz**
Number of ways	4 ways
Power supply	24 to 30V coming from the repeater. Remote power supply of each booster by switch with booster alarm inhibition when it is not connected
Alarm to repeater	Booster consumption monitoring per channel Green / red LED on each output
Consumption	30W Max
Dimensions	168x 216 x 67mm
Weight	1 Kg
Connectors	N female
Protection	IP 34
Temperature range	0°C to +45 °C
Cooling	Natural convection

DIGITAL FILTERING



SPLITTER

For more information : www.see-critical.com

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