

Application

- EGSM / GSM / EDGE / GPRS / UMTS/LTE
- Indoor coverage enhancement
- Buildings, Shopping malls

Key Features

- Very Compact design
- +15 dBm output power
- Selective Band
- Multi-band configuration
- Built-in coverage antenna
- Remote by SMS

Benefits

- No settings
- Cost effective solution
- To be installed by skilled personnel
- Fast and easy deployment

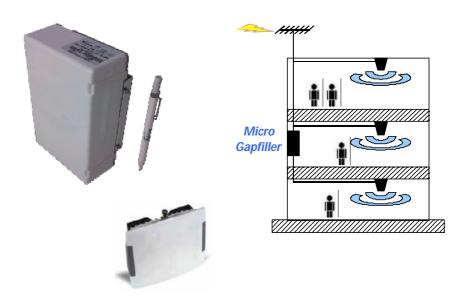
Contact us

Distributore per l'Italia:

PROTEL SAS Via Magellano 3 A/B6 **Cesano Boscone (MI)**

Solution for GSM/UMTS/LTE coverage

GSM/UMTS/LTE Micro-Repeater Indoor



Cost effective way for inside coverage

The GSM/UMTS/LTE Micro-Repeater enhances the coverage in the infrastructures like buildings, shopping malls, private houses, etc... where the reception from the base stations (BTS) is difficult or even impossible. Indeed, the attenuation of the signal through the walls can be very important, and makes it impossible to use inside the buildings the mobile phones.

The GSM/UMTS/LTE Micro-Gapfiller consists of whole-integrated equipment that filters and amplifies the signal from outdoor into the infrastructure to cover. Very compact and wall-mounted, the GSM/UMTS Micro-Repeater is very discrete and can be installed anywhere.

The GSM/UMTS/LTE Micro-Gapfiller can be managed by SMS with an optional module.

The coverage can be insured with the built-in antenna (optional) or an external distribution system.











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RF Features		800	900	1800	2100	2600	
Erogueney band	Uplink	842 - 852 MHz	880 - 915 MHz	1710 – 1785 MHz	1920 – 1980 MHz	2500 – 2515 MHz	
Frequency band	Downlink	801 - 811 MHz	925 - 960 MHz	1805 – 1880 MHz	2110 – 2170 MHz	2620 – 2635 MHz	
Operating bandwidth		According with operator					
Automatic Gain Control	Uplink	= 70 dB	= 65 dB	= 60 dB		= 70 dB	
	Downlink	= 70 dB	= 65 dB	= 60 dB		= 70 dB	
Selectivity		= 20 dBc	= 50 dBc		= 20 dBc		
Maximum output power	Uplink	= +15 dBm	= +13 dBm = -		= +10 dBm	= +15 dBm	
	Downlink(2dBi incl.)	= +17 dBm	= +15 dBm		= +12 dBm	= +17 dBm	
Spurious emissions		= - 30	= - 36 dBm = -) dBm	= - 36 dBm	
Noise Figure		= 7 dB					

Mechanical Features			Single Band		Dual Band	Tri-Band		
Frequency band			900 1800 2100	800 2600	900-1800 1800-2100	900-1800-2100		
Power supply voltage			230 VAC ± 10%					
Power consumption			10 W	20 W	25 W	40 W		
VSWR			1,5:1					
	Height		168 mm					
Dimensions	Length		119 mm	228 mm	266 mm	413 mm		
	Depth	Standard version	67 mm	70 mm	67 mm			
		With monitoring module	87 mm	na	87 mm			
Weight		0,74 Kg		1,6 Kg 2,46 Kg				
Connectors		Donor	SMA f	N f	SMA f			
		Coverage	SMAf					
Rating class		IP20	IP40	IP20				
Temperature range			-10°C to +55°C					
Monitoring			Alarm "Antenna Isolation" / Alarm "Gain limiter" Remote monitoring by SMS modem (optional) NMS available (optional) Green Led: Operation OK / Orange Led: Alarm					



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= 100 000 hours (MIL - HDBK 217)

Mounting Plan 900-1800-2100



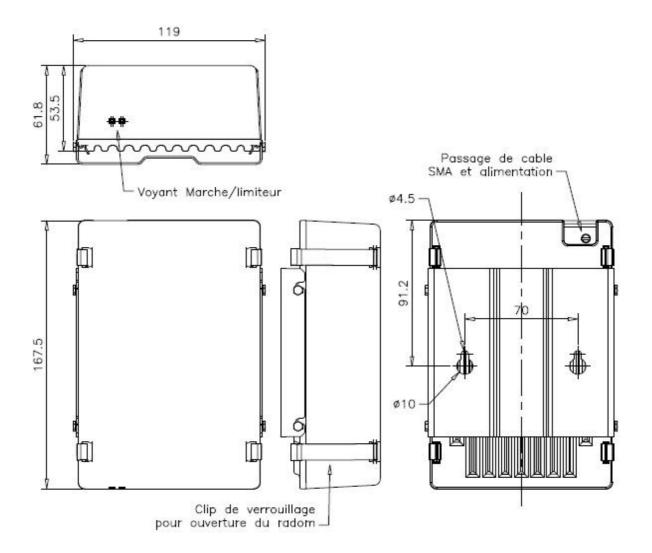




Single Band Micro-Repeater

Dual Band Micro-Repeater

Tri-Band Micro-Repeater





Solution for GSM/UMTS/LTE coverage

GSM/UMTS/LTE Micro-Repeater Indoor

Mounting Plan 800-2600



