

## TECHNICAL SPECIFICATIONS

### Antennas mounting

**It is imperative to maximize the isolation between the antennas.**

External antennas must be installed at a **minimal distance of 50 cm** from one another.

If only one external antenna is installed, it must be installed at a **minimal distance of 50 cm** from the control panel.

### 868 MHz external RF antenna

Parameters	Min	Typical	Max	Unit	Comments
Frequency Band	868		870	MHz	<i>Mono Band</i>
Impedance	50			$\Omega$	
Return loss	10			dB	<i>VSWR &lt; 1.9 : 1</i>
Polarization	vertical				
Radiation pattern	omni-directional				<i>In horizontal plan</i>
Gain			3	dBi	<i>ETSI agreement limit</i>
Operating temperature	-45		85	°C	

Example : GP868 ([http://www.aurelwireless.com/wp-content/uploads/shortform/650200313G\\_sf.pdf](http://www.aurelwireless.com/wp-content/uploads/shortform/650200313G_sf.pdf))

Note : The RF antenna has to be enabled in the control panel parameters.

### External 2G-3G antenna

Paramètres	Min	Typical	Max	Unit	Comments
Frequency bands	824		960	MHz	<i>GSM 850, E-GSM 900...</i>
	1710		2170		<i>DCS 1800, PCS1900, UMTS...</i>
Impedance	50			$\Omega$	
Return loss	6			dB	<i>VSWR &lt; 3 : 1</i>
Radiation pattern	omni-directional				<i>In horizontal plan</i>
Operating temperature	-45		85	°C	



868 MHz external RF antenna



External 2G-3G antenna

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