

Cellular Frequency / Band Chart

The following charts will help ensuring the right antenna can be selected for a particular cellular module. It is used by comparing common cellular frequencies used on u-blox or other IoT embedded wireless modules against band numbers, making it easier to check suitability for a particular antenna with a u-blox module destined for a particular region.

4G / LTE frequencies

Frequency	Band Number	Area in operation		Frequency	Band Number	Area in operation
2100MHz	1	APAC		700MHz	17	
1900MHz	2			850MHz	18	
1800MHz	3			850MHz	19	APAC
1700MHz	4			800MHz	20	EMEA
850MHz	5	China		700MHz	28	Aus/S.Amer
850MHz	6			450MHz	31	
2600MHz	7			1700MHz	66	
900MHz	8	EMEA		600MHz	71	
700MHz	12			700MHz	85	
750MHz	13					

3G / UMTS frequencies

Frequency	Band	Area in Operation		Frequency	Band	Area in Operation
2100MHz	1	EMEA/APAC		850MHz	6	
1900MHz	2	US		900MHz	8	EMEA/APAC
AWS (1700MHz)	4			850MHz	19	
850MHz	5	US				

2G / GSM/GPRS frequencies

Frequency	Band	Area in Operation		Frequency	Band	Area in Operation
850MHz	GSM	US		900MHz	E-GSM	EMEA/APAC
1800MHz	DCS	EMEA/APAC		1900MHz	PCS	US

This covers the majority of frequencies and bands relevant to customers deploying modules purchased through Alpha Micro Components, however it is not an exhaustive list. If you would like to discuss cellular module selection, please contact Alpha Micro Ltd on +44 1256 851770 or email sales@alphamicro.net