



Equipment Description

Technical Description: <i>(Please provide a brief description of the intended use of the equipment)</i>	Bluetooth Low Energy (LE) and 802.15.4 wireless radio module
Manufacturer:	Silicon Laboratories Finland Oy
Model Name(s):	Main Model: MGM270S22A (supports both BLE and 802.15.4) Series Model: BGM270S22A (supports only BLE – 802.15.4 disabled)
Brand Name:	SILICON LABS

If more than one frequency band is supported, please confirm which combinations of bands are capable of Simultaneous Transmit.	
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Frequency Band 1: BLE

Antenna Brand / Model Names:	[1] Integral PCB Trace Antenna: SILICON LABS / GM270S or [2] External Reference Dipole Antenna (not sold with modules): TE Connectivity / ANT-2.4-CW-CT-SMA-RPS	
Antenna length:	[1] 6.3 [2] 142	mm
Bottom frequency:	2402	MHz
Middle frequency:	2440	MHz
Top frequency:	2480	MHz

Maximum power (input to the antenna including a tolerance):	6.3	dBm
Antenna gain (or maximum gain allowed):	[1] 1.74 [2] 2.80	dBi

Or

Field Strength Measurement:		dBµA/M
Measurement Distance:		cm

Separation distance from antenna to the user/bystander	Mobile Mode: 20 Portable Mode: (to be calculated for the exemption)	cm
Transmitter Duty Cycle:	BLE Legacy Adv Mode: 5 Data Mode: 98	%



Frequency Band 2: 802.15.4

Antenna Brand / Model Names:	[1] Integral PCB Trace Antenna: SILICON LABS / GM270S or [2] External Reference Dipole Antenna (not sold with modules): TE Connectivity / ANT-2.4-CW-CT-SMA-RPS	
Antenna length:	[1] 6.3 [2] 142	mm
Bottom frequency:	2405	MHz
Middle frequency:	2445	MHz
Top frequency:	2480	MHz

Maximum power (input to the antenna including a tolerance):	6.3	dBm
Antenna gain (or maximum gain allowed):	[1] 1.74 [2] 2.80	dBi

Or

Field Strength Measurement:		dBμA/M
Measurement Distance:		cm

Separation distance from antenna to the user/bystander	Mobile Mode: 20 Portable Mode: (to be calculated for the exemption)	cm
Transmitter Duty Cycle:	100	%

Data in the tables above is provided by the Manufacturer.