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TI-Based Automotive BLE Modules		
Part Number	**RF-BM-2642QB1I**	**RF-BM-2340QA2**
Photo		
IC	CC2642R-Q1	CC2340R5-Q1
Core	48 MHz ARM® Cortex®-M4	48 MHz ARM® Cortex®-M0+
RAM	80 kB + 8 kB	36 kB
Flash	352 kB	512 kB
Max. TX Power	+5 dBm	+8 dBm
Power Supply	1.8 V ~ 3.63 V, recommend to 3.3 V	DCDC mode: 2.2 V ~ 3.8 V, 3.3 V is recommended GLDO mode: 1.71 V ~ 3.8 V, 3.3 V is recommended Remark: When set to DCDC mode, if the supply voltage is lower than 2.2 V, it will automatically switch to GLDO mode.
Protocols	BLE5.3	BLE5.3, ZigBee, SimpleLink™ TI 15.4-stack, Proprietary systems
Receiving Sensitivity	-105 dBm for 125 kbps LE Coded PHY -97 dBm for BLE 1 Mbps	-102 dBm for 125 kbps LE Coded PHY -96 dBm for BLE 1 Mbps
Transmission Range	External PCB antenna 230 m @ 1M PHY 340 m @ LE Coded PHY	200 m @ 1M PHY
Antenna	IPEX/RF ANT interface	PCB
Dimension (mm)	21.5 x 17.0 x 2.2	11.2 x 16.6 x 2.1
GPIO	31	13
Certifications	N/A	N/A
UART Protocol	BLE 5.0 Master-slave (8 connction at most)	BLE 5.0 Master-slave (5 connction at most)
Working Temperature	-40 ℃ ~ +105 ℃	
Storage Temperature	-40 ℃ ~ +125 ℃	
Application	Passive entry passive start (PEPS), PaaK (Phone as a Key), remote keyless entry (RKE), ADAS(Advanced driver assistance systems), Telematics control unit (TCU), TPMS(Tire Pressure Monitor System), car sharing, piloted parking, cable replacement	

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