









Wireless Connectivity Solutions













Across-the-Board TI Wireless Modules





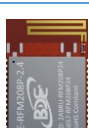

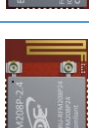

Category	NO.	TI Chipset	Module Picture	Orderable Part Number	Technology & Protocol	MCU	RF	Operating Temp. (°C)	Dimension (mm)	Certification	Antenna Options	On-board SPI Flash
2.4GHz & Sub-1GHz Dual-Band, Multi-Protocol with PA in Sub-1GHz	1	CC1354P10		BDE-MB1354P101NN32	<ul style="list-style-type: none"> • Thread • Zigbee® • Matter • BLE 5.3 • Wi-SUN® • mioty® • Amazon Sidewalk • Wireless M-Bus • SimpleLink™ TI 15.4-Stack (Sub-1G) • 6LoWPAN • Proprietary 	<ul style="list-style-type: none"> • Cortex®-M33 • Flash: 1024kB • SRAM: 256kB • 3.4mA@Active • 0.98uA@Standby • 0.17uA@Shutdown 	<ul style="list-style-type: none"> • TX power: +20dBm@Sub-1G, +5dBm@2.4G • RX Sensitivity: -121dBm@2.5kbps • -110dBm@50kbps • -104dBm@BLE 125kbps • 5.8mA@RX@868M • 6.9mA@RX@2.4G • 25.8mA@TX@+14dBm@868M • 64mA@TX@+20dBm@915M 	-40 to +85	26 x 19 x 2.15	<ul style="list-style-type: none"> • Bluetooth • FCC • IC • CE 	<ul style="list-style-type: none"> • ANT pin for S1G • ANT pin for 2.4G 	32Mbit
	2			BDE-MB1354P101NU32							<ul style="list-style-type: none"> • ANT pin for S1G • U.FL for 2.4G 	
	3			BDE-MB1354P101NA32							<ul style="list-style-type: none"> • ANT pin for S1G • PCB trace for 2.4G 	
	4			BDE-MB1354P101UN32							<ul style="list-style-type: none"> • U.FL for S1G • ANT pin for 2.4G 	
	5			BDE-MB1354P101UU32							<ul style="list-style-type: none"> • U.FL for S1G • U.FL for 2.4G 	
	6			BDE-MB1354P101UA32							<ul style="list-style-type: none"> • U.FL for S1G • PCB trace for 2.4G 	
	7			BDE-MB1354P101NN0							<ul style="list-style-type: none"> • ANT pin for S1G • ANT pin for 2.4G 	
	8			BDE-MB1354P101NU0							<ul style="list-style-type: none"> • ANT pin for S1G • U.FL for 2.4G 	
	9			BDE-MB1354P101NA0							<ul style="list-style-type: none"> • ANT pin for S1G • PCB trace for 2.4G 	
	10			BDE-MB1354P101UN0							<ul style="list-style-type: none"> • U.FL for S1G • ANT pin for 2.4G 	
	11			BDE-MB1354P101UU0							<ul style="list-style-type: none"> • U.FL for S1G • U.FL for 2.4G 	
	12			BDE-MB1354P101UA0							<ul style="list-style-type: none"> • U.FL for S1G • PCB trace for 2.4G 	

Category	NO.	TI Chipset	Module Picture	Orderable Part Number	Technology & Protocol	MCU	RF	Operating Temp. (°C)	Dimension (mm)	Certification	Antenna	On-board SPI Flash
2.4GHz & Sub-1GHz Dual-Band, Multi-Protocol with PA in Sub-1GHz	13	CC1352P7		BDE-MB1352P71NN32	<ul style="list-style-type: none"> • Thread • Zigbee® • Matter • BLE 5.2 • Wi-SUN® • mioty® • Amazon Sidewalk • Wireless M-Bus • SimpleLink™ TI 15.4-Stack (Sub-1G) • 6LoWPAN • Proprietary 	<ul style="list-style-type: none"> • Cortex®-M4F • Flash: 704kB • SRAM: 144kB • 2.63mA@Active • 0.8uA@Standby • 0.1uA@Shutdown 	<ul style="list-style-type: none"> • TX power: +20dBm@Sub-1G, +5dBm@2.4G • RX Sensitivity: -121dBm@2.5kbps • -104dBm@50kbps • -104dBm@BLE 125kbps • 5.4mA@RX@868M • 6.4mA@RX@2.4G • 24.9mA@TX@+14dBm@868M • 64mA@TX@+20dBm@915M 	-40 to +85	26 x 19 x 2.15	<ul style="list-style-type: none"> • Bluetooth • FCC • IC • CE 	<ul style="list-style-type: none"> • ANT pin for S1G • ANT pin for 2.4G 	32Mbit
	14			BDE-MB1352P71NU32							<ul style="list-style-type: none"> • ANT pin for S1G • U.FL for 2.4G 	
	15			BDE-MB1352P71NA32							<ul style="list-style-type: none"> • ANT pin for S1G • PCB trace for 2.4G 	
	16			BDE-MB1352P71UN32							<ul style="list-style-type: none"> • U.FL for S1G • ANT pin for 2.4G 	
	17			BDE-MB1352P71UU32							<ul style="list-style-type: none"> • U.FL for S1G • U.FL for 2.4G 	
	18			BDE-MB1352P71UA32							<ul style="list-style-type: none"> • U.FL for S1G • PCB trace for 2.4G 	
	19			BDE-MB1352P71NNO							<ul style="list-style-type: none"> • ANT pin for S1G • ANT pin for 2.4G 	
	20			BDE-MB1352P71NU0							<ul style="list-style-type: none"> • ANT pin for S1G • U.FL for 2.4G 	
	21			BDE-MB1352P71NA0							<ul style="list-style-type: none"> • ANT pin for S1G • PCB trace for 2.4G 	
	22			BDE-MB1352P71UN0							<ul style="list-style-type: none"> • U.FL for S1G • ANT pin for 2.4G 	
23		BDE-MB1352P71UU0	<ul style="list-style-type: none"> • U.FL for S1G • U.FL for 2.4G 									
24		BDE-MB1352P71UA0	<ul style="list-style-type: none"> • U.FL for S1G • PCB trace for 2.4G 									

Category	NO.	TI Chipset	Module Picture	Orderable Part Number	Technology & Protocol	MCU	RF	Operating Temp. (°C)	Dimension (mm)	Certification	Antenna	On-board SPI Flash	
2.4GHz & Sub-1GHz Dual-Band, Multi-Protocol with PA in Sub-1GHz	25	CC1352P		BDE-RFM208P-S1-NN							<ul style="list-style-type: none"> • ANT pin for S1G • ANT pin for 2.4G 		
	26			BDE-RFM208P-S1-NU							<ul style="list-style-type: none"> • ANT pin for S1G • U.FL for 2.4G 		
	27			BDE-RFM208P-S1-NA	<ul style="list-style-type: none"> • Thread • Zigbee® • Matter • BLE 5.2 • IEEE 802.15.4g • Wi-SUN® • mioty® • Amazon Sidewalk • Wireless M-Bus • SimpleLink™ TI 15.4-Stack (Sub-1G) • KNX RF • 6LoWPAN • Proprietary 	<ul style="list-style-type: none"> • Cortex®-M4F • Flash: 352kB • SRAM: 80kB • 2.9mA@Active • 0.85uA@Standby • 0.15uA@Shutdown 	<ul style="list-style-type: none"> • TX power: +20dBm@Sub-1G, +5dBm@2.4G • RX Sensitivity: -121dBm@2.5kbps • -110dBm@50kbps • -105dBm@BLE 125kbps • 5.8mA@RX@868M • 6.9mA@RX@2.4G • 24.9mA@TX@+14dBm@868M • 63mA@TX@+20dBm@915M 	-40 to +85	29.8 x 19 x 2.15	<ul style="list-style-type: none"> • Bluetooth • FCC • IC • CE 	<ul style="list-style-type: none"> • ANT pin for S1G • U.FL for 2.4G 	Not Included	
	28			BDE-RFM208P-S1-UN								<ul style="list-style-type: none"> • U.FL for S1G • ANT pin for 2.4G 	
	29			BDE-RFM208P-S1-UU								<ul style="list-style-type: none"> • U.FL for S1G • U.FL for 2.4G 	
	30			BDE-RFM208P-S1-UA								<ul style="list-style-type: none"> • U.FL for S1G • PCB trace for 2.4G 	

Category	NO.	TI Chipset	Module Picture	Orderable Part Number	Technology & Protocol	MCU	RF	Operating Temp. (°C)	Dimension (mm)	Certification	Antenna	On-board SPI Flash
2.4GHz & Sub-1GHz Dual-Band, Multi-Protocol with PA in 2.4GHz	31	CC1354P10		BDE-MB1354P102NN32	<ul style="list-style-type: none"> • Thread • Zigbee® • Matter • BLE 5.3 • Wi-SUN® • mioty® • Amazon Sidewalk • Wireless M-Bus • SimpleLink™ TI 15.4-Stack (Sub-1G) • 6LoWPAN • Proprietary 	<ul style="list-style-type: none"> • Cortex®-M33 • Flash: 1024kB • SRAM: 256kB • 3.4mA@Active • 0.98uA@Standby • 0.17uA@Shutdown 	<ul style="list-style-type: none"> • TX power: +20dBm@2.4G, +5dBm@Sub-1G • RX Sensitivity: -121dBm@2.5kbps, -110dBm@50kbps, -104dBm@BLE 125kbps • 5.8mA@RX@868M • 6.9mA@RX@2.4G • 25.8mA@TX@+14dBm@868M • 101mA@TX@+20dBm@2.4G 	-40 to +85	26 x 19 x 2.15	<ul style="list-style-type: none"> • Bluetooth • FCC • IC • CE 	<ul style="list-style-type: none"> • ANT pin for S1G • ANT pin for 2.4G 	32Mbit
	32			BDE-MB1354P102NU32							<ul style="list-style-type: none"> • ANT pin for S1G • U.FL for 2.4G 	
	33			BDE-MB1354P102NA32							<ul style="list-style-type: none"> • ANT pin for S1G • PCB trace for 2.4G 	
	34			BDE-MB1354P102UN32							<ul style="list-style-type: none"> • U.FL for S1G • ANT pin for 2.4G 	
	35			BDE-MB1354P102U32							<ul style="list-style-type: none"> • U.FL for S1G • U.FL for 2.4G 	
	36			BDE-MB1354P102UA32							<ul style="list-style-type: none"> • U.FL for S1G • PCB trace for 2.4G 	
	37			BDE-MB1354P102NN0							<ul style="list-style-type: none"> • ANT pin for S1G • ANT pin for 2.4G 	
	38			BDE-MB1354P102NU0							<ul style="list-style-type: none"> • ANT pin for S1G • U.FL for 2.4G 	
	39			BDE-MB1354P102NA0							<ul style="list-style-type: none"> • ANT pin for S1G • PCB trace for 2.4G 	
	40			BDE-MB1354P102UN0							<ul style="list-style-type: none"> • U.FL for S1G • ANT pin for 2.4G 	
	41			BDE-MB1354P102U00							<ul style="list-style-type: none"> • U.FL for S1G • U.FL for 2.4G 	
	42			BDE-MB1354P102UA0							<ul style="list-style-type: none"> • U.FL for S1G • PCB trace for 2.4G 	







Category	NO.	TI Chipset	Module Picture	Orderable Part Number	Technology & Protocol	MCU	RF	Operating Temp. (°C)	Dimension (mm)	Certification	Antenna	On-board SPI Flash
2.4GHz & Sub-1GHz Dual-Band, Multi-Protocol with PA in 2.4GHz	43	CC1352P7		BDE-MB1352P72NN32	<ul style="list-style-type: none"> • Thread • Zigbee® • Matter • BLE 5.2 • Wi-SUN® • mioty® • Amazon Sidewalk • Wireless M-Bus • SimpleLink™ TI 15.4-Stack (Sub-1G) • 6LoWPAN • Proprietary 	<ul style="list-style-type: none"> • Cortex®-M4F • Flash: 704kB • SRAM: 144kB • 2.63mA@Active • 0.8uA@Standby • 0.1uA@Shutdown 	<ul style="list-style-type: none"> • TX power: +20dBm@2.4G, +5dBm@Sub-1G • RX Sensitivity: -121dBm@2.5kbps, -110dBm@50kbps, -104dBm@BLE 125kbps • 5.4mA@RX@868M • 6.4mA@RX@2.4G • 24.9mA@TX@+14dBm@868M • 101mA@TX@+20dBm@2.4G 	-40 to +85	26 x 19 x 2.15	<ul style="list-style-type: none"> • Bluetooth • FCC • IC • CE 	<ul style="list-style-type: none"> • ANT pin for S1G • ANT pin for 2.4G 	32Mbit
	44			BDE-MB1352P72NU32							<ul style="list-style-type: none"> • ANT pin for S1G • U.FL for 2.4G 	
	45			BDE-MB1352P72NA32							<ul style="list-style-type: none"> • ANT pin for S1G • PCB trace for 2.4G 	
	46			BDE-MB1352P72UN32							<ul style="list-style-type: none"> • U.FL for S1G • ANT pin for 2.4G 	
	47			BDE-MB1352P72UU32							<ul style="list-style-type: none"> • U.FL for S1G • U.FL for 2.4G 	
	48			BDE-MB1352P72UA32							<ul style="list-style-type: none"> • U.FL for S1G • PCB trace for 2.4G 	
	49			BDE-MB1352P72NNO							<ul style="list-style-type: none"> • ANT pin for S1G • ANT pin for 2.4G 	
	50			BDE-MB1352P72NU0							<ul style="list-style-type: none"> • ANT pin for S1G • U.FL for 2.4G 	
	51			BDE-MB1352P72NA0							<ul style="list-style-type: none"> • ANT pin for S1G • PCB trace for 2.4G 	
	52			BDE-MB1352P72UN0							<ul style="list-style-type: none"> • U.FL for S1G • ANT pin for 2.4G 	
53		BDE-MB1352P72UU0	<ul style="list-style-type: none"> • U.FL for S1G • U.FL for 2.4G 									
54		BDE-MB1352P72UA0	<ul style="list-style-type: none"> • U.FL for S1G • PCB trace for 2.4G 									

Category	NO.	TI Chipset	Module Picture	Orderable Part Number	Technology & Protocol	MCU	RF	Operating Temp. (°C)	Dimension (mm)	Certification	Antenna	On-board SPI Flash
2.4GHz & Sub-1GHz Dual-Band, Multi-Protocol with PA in 2.4GHz	55	CC1352P		BDE-RFM208P-2.4-NN	<ul style="list-style-type: none"> • Thread • Zigbee® • Matter • BLE 5.2 • IEEE 802.15.4g • Wi-SUN® • mioty® • Amazon Sidewalk • Wireless M-Bus • SimpleLink™ TI 15.4-Stack (Sub-1G) • KNX RF • 6LoWPAN • Proprietary 	<ul style="list-style-type: none"> • Cortex®-M4F • Flash: 352kB • SRAM: 80kB • 2.9mA@Active • 0.85uA@Standby • 0.15uA@Shutdown 	<ul style="list-style-type: none"> • TX power: +20dBm@Sub-1G, +5dBm@2.4G • RX Sensitivity: -121dBm@2.5kbps • -105dBm@50kbps • -105dBm@BLE 125kbps • 5.8mA@RX@868M • 6.9mA@RX@2.4G • 24.9mA@TX@+14dBm@868M • 85mA@TX@+20dBm@2.4G 	-40 to +85	29.8 x 19 x 2.15	<ul style="list-style-type: none"> • Bluetooth • FCC • IC • CE 	<ul style="list-style-type: none"> • ANT pin for S1G • ANT pin for 2.4G 	Not Included
	56			BDE-RFM208P-2.4-NU							<ul style="list-style-type: none"> • ANT pin for S1G • U.FL for 2.4G 	
	57			BDE-RFM208P-2.4-NA							<ul style="list-style-type: none"> • ANT pin for S1G • PCB trace for 2.4G 	
	58			BDE-RFM208P-2.4-UN							<ul style="list-style-type: none"> • U.FL for S1G • ANT pin for 2.4G 	
	59			BDE-RFM208P-2.4-UU							<ul style="list-style-type: none"> • U.FL for S1G • U.FL for 2.4G 	
	60			BDE-RFM208P-2.4-UA							<ul style="list-style-type: none"> • U.FL for S1G • PCB trace for 2.4G 	

Category	NO.	TI Chipset	Module Picture	Orderable Part Number	Technology & Protocol	MCU	RF	Operating Temp. (°C)	Dimension (mm)	Certification	Antenna	On-board SPI Flash
2.4G & Sub-1G Dual-Band, Multi-Protocol	61	CC1354R10		BDE-MB1354R10NN32	<ul style="list-style-type: none"> • Thread • Zigbee® • Matter • BLE 5.3 • Wi-SUN® • mioty® • Amazon Sidewalk • Wireless M-Bus • SimpleLink™ TI 15.4-Stack (Sub-1G) • 6LoWPAN • Proprietary 	<ul style="list-style-type: none"> • Cortex®-M33 • Flash: 1024kB • SRAM: 256kB • 3.4mA@Active • 0.98uA@Standby • 0.17uA@Shutdown 	<ul style="list-style-type: none"> • TX power: +14dBm@Sub-1G, +5dBm@2.4G • RX Sensitivity: -121dBm@2.5kbps, -110dBm@50kbps, -104dBm@BLE 125kbps • 5.8mA@RX@868M • 6.9mA@RX@2.4G • 25.8mA@TX@+14dBm@868M 	-40 to +85	26 x 19 x 2.15	<ul style="list-style-type: none"> • Bluetooth • FCC • IC • CE 	<ul style="list-style-type: none"> • ANT pin for S1G • ANT pin for 2.4G 	32Mbit
	62			BDE-MB1354R10NU32							<ul style="list-style-type: none"> • ANT pin for S1G • U.FL for 2.4G 	
	63			BDE-MB1354R10NA32							<ul style="list-style-type: none"> • ANT pin for S1G • PCB trace for 2.4G 	
	64			BDE-MB1354R10UN32							<ul style="list-style-type: none"> • U.FL for S1G • ANT pin for 2.4G 	
	65			BDE-MB1354R10UU32							<ul style="list-style-type: none"> • U.FL for S1G • U.FL for 2.4G 	
	66			BDE-MB1354R10UA32							<ul style="list-style-type: none"> • U.FL for S1G • PCB trace for 2.4G 	
	67			BDE-MB1354R10NN0							<ul style="list-style-type: none"> • ANT pin for S1G • ANT pin for 2.4G 	
	68			BDE-MB1354R10NU0							<ul style="list-style-type: none"> • ANT pin for S1G • U.FL for 2.4G 	
	69			BDE-MB1354R10NA0							<ul style="list-style-type: none"> • ANT pin for S1G • PCB trace for 2.4G 	
	70			BDE-MB1354R10UN0							<ul style="list-style-type: none"> • U.FL for S1G • ANT pin for 2.4G 	
71		BDE-MB1354R10UU0	<ul style="list-style-type: none"> • U.FL for S1G • U.FL for 2.4G 									
72		BDE-MB1354R10UA0	<ul style="list-style-type: none"> • U.FL for S1G • PCB trace for 2.4G 									

Category	NO.	TI Chipset	Module Picture	Orderable Part Number	Technology & Protocol	MCU	RF	Operating Temp. (°C)	Dimension (mm)	Certification	Antenna	On-board SPI Flash
2.4G & Sub-1G Dual-Band, Multi-Protocol	73	CC1352R		BDE-RFM208-NN	<ul style="list-style-type: none"> • Thread • Zigbee® • BLE 5.2 • IEEE 802.15.4g • Wi-SUN® • mioty® • Amazon Sidewalk • Wireless M-Bus • SimpleLink™ TI 15.4-Stack (Sub-1G) • KNX RF • 6LoWPAN • Proprietary 	<ul style="list-style-type: none"> • Cortex®-M4F • Flash: 352kB • SRAM: 80kB • 2.9mA@Active • 0.85uA@Standby • 0.15uA@Shutdown 	<ul style="list-style-type: none"> • TX power: +14dBm@Sub-1G, +5dBm@2.4G • RX Sensitivity: -121dBm@2.5kbps, -110dBm@50kbps, -105dBm@BLE 125kbps • 5.8mA@RX@868M • 6.9mA@RX@2.4G • 24.9mA@TX@+14dBm@868M 	-40 to +85	29.8 x 19 x 2.15	<ul style="list-style-type: none"> • Bluetooth • FCC • IC • CE 	<ul style="list-style-type: none"> • ANT pin for S1G • ANT pin for 2.4G 	Not Included
	74			BDE-RFM208-NU							<ul style="list-style-type: none"> • ANT pin for S1G • U.FL for 2.4G 	
	75			BDE-RFM208-NA							<ul style="list-style-type: none"> • ANT pin for S1G • PCB trace for 2.4G 	
	76			BDE-RFM208-UN							<ul style="list-style-type: none"> • U.FL for S1G • ANT pin for 2.4G 	
	77			BDE-RFM208-UU							<ul style="list-style-type: none"> • U.FL for S1G • U.FL for 2.4G 	
	78			BDE-RFM208-UA							<ul style="list-style-type: none"> • U.FL for S1G • PCB trace for 2.4G 	
	79			BDE-RFM208-IN-NN							<ul style="list-style-type: none"> • ANT pin for S1G • ANT pin for 2.4G 	
	80			BDE-RFM208-IN-NU							<ul style="list-style-type: none"> • ANT pin for S1G • U.FL for 2.4G 	
	81			BDE-RFM208-IN-NA							<ul style="list-style-type: none"> • ANT pin for S1G • PCB trace for 2.4G 	
	82			BDE-RFM208-IN-UN							<ul style="list-style-type: none"> • U.FL for S1G • ANT pin for 2.4G 	
	83			BDE-RFM208-IN-UU							<ul style="list-style-type: none"> • U.FL for S1G • U.FL for 2.4G 	
	84			BDE-RFM208-IN-UA							<ul style="list-style-type: none"> • U.FL for S1G • PCB trace for 2.4G 	

Category	NO.	TI Chipset	Module Picture	Orderable Part Number	Technology & Protocol	MCU	RF	Operating Temp. (°C)	Dimension (mm)	Certification	Antenna	On-board SPI Flash	
2.4G Multi-Protocol with PA	85	CC2674P10		BDE-MP2674P10N32	<ul style="list-style-type: none"> • Thread • Zigbee® • Matter • BLE 5.3 • 6LoWPAN • Proprietary 	<ul style="list-style-type: none"> • Cortex®-M33 • Flash: 1024kB • SRAM: 256kB • 4.0mA@Active • 1.19uA@Standby • 0.13uA@Shutdown 	<ul style="list-style-type: none"> • TX power: +20dBm • RX Sensitivity: -104dBm@BLE 125kbps • 6.4mA@RX • 101mA@TX@+20dBm 	-40 to +85	26 x 19 x 2.15	<ul style="list-style-type: none"> • Bluetooth • FCC • IC • CE 	• ANT pin		
	86			BDE-MP2674P10U32							• U.FL		32Mbit
	87			BDE-MP2674P10A32							• PCB trace		
	88			BDE-MP2674P10N0							• ANT pin		
	89			BDE-MP2674P10U0							• U.FL		Not Included
	90			BDE-MP2674P10A0							• PCB trace		
	91	CC2652P7		BDE-MP2652P7N32	<ul style="list-style-type: none"> • Thread • Zigbee® • Matter • BLE 5.2 • SimpleLink™ TI 15.4-Stack • 6LoWPAN • Proprietary 	<ul style="list-style-type: none"> • Cortex®-M4F • Flash: 704kB • SRAM: 144kB • 3.1mA@Active • 0.9uA@Standby • 0.1uA@Shutdown 	<ul style="list-style-type: none"> • TX power: +20dBm • RX Sensitivity: -104dBm@BLE 125kbps • 6.4mA@RX • 101mA@TX@+20dBm 	-40 to +85	26 x 19 x 2.15	<ul style="list-style-type: none"> • Bluetooth • FCC • IC • CE 	• ANT pin		
	92			BDE-MP2652P7U32							• U.FL		32Mbit
	93			BDE-MP2652P7A32							• PCB trace		
	94			BDE-MP2652P7N0							• ANT pin		
	95			BDE-MP2652P7U0							• U.FL		Not Included
	96			BDE-MP2652P7A0							• PCB trace		

Category	NO.	TI Chipset	Module Picture	Orderable Part Number	Technology & Protocol	MCU	RF	Operating Temp. (°C)	Dimension (mm)	Certification	Antenna	On-board SPI Flash	
2.4G Multi-Protocol with PA	97	CC2651P3		BDE-MP2651P3N32	<ul style="list-style-type: none"> • Zigbee® • BLE 5.2 • SimpleLink™ TI 15.4-Stack Proprietary 	<ul style="list-style-type: none"> • Cortex®-M4 • Flash: 352KB • SRAM: 32KB • 2.91mA@Active • 0.8uA@Standby • 0.1uA@Shutdown 	<ul style="list-style-type: none"> • TX power: +20dBm • RX Sensitivity: -104dBm@BLE 125kbps • 6.4mA@RX • 101mA@TX@+20dBm 	-40 to +85	26 x 19 x 2.15	<ul style="list-style-type: none"> • Bluetooth • FCC • IC • CE 	• ANT pin		
	98			BDE-MP2651P3U32							• U.FL		32Mbit
	99			BDE-MP2651P3A32							• PCB trace		
	100			BDE-MP2651P3N0							• ANT pin		
	101			BDE-MP2651P3U0							• U.FL		Not Included
	102			BDE-MP2651P3A0							• PCB trace		

Category	NO.	TI Chipset	Module Picture	Orderable Part Number	Technology & Protocol	MCU	RF	Operating Temp. (°C)	Dimension (mm)	Certification	Antenna	On-board SPI Flash	
2.4G Multi-Protocol	103	CC2674R10		BDE-MP2674R10N32	<ul style="list-style-type: none"> • Thread • Zigbee® • Matter • BLE 5.3 • 6LoWPAN • Proprietary 	<ul style="list-style-type: none"> • Cortex®-M33 • Flash: 1024kB • SRAM: 256kB • 4.0mA@Active • 1.19uA@Standby • 0.13uA@Shutdown 	<ul style="list-style-type: none"> • TX power: +5dBm • RX Sensitivity: -104dBm@BLE 125kbps • 6.4mA@RX • 9.8mA@TX@+5dBm 	-40 to +85	21.5 x 15 x 2.15	<ul style="list-style-type: none"> • Bluetooth • FCC • IC • CE 	• ANT pin	32Mbit	
	104			BDE-MP2674R10U32							• U.FL		
	105			BDE-MP2674R10A32							• PCB trace		
	106			BDE-MP2674R10N0							• ANT pin		
	107			BDE-MP2674R10U0							• U.FL		Not Included
	108			BDE-MP2674R10A0							• PCB trace		
	109			BDE-MP2652R7N32							<ul style="list-style-type: none"> • Thread • Zigbee® • Matter • BLE 5.2 • SimpleLink™ TI 15.4-Stack • 6LoWPAN • Proprietary 		<ul style="list-style-type: none"> • Cortex®-M4F • Flash: 704kB • SRAM: 144kB • 3.1mA@Active • 0.9uA@Standby • 0.1uA@Shutdown
	110		BDE-MP2652R7U32	• U.FL									
	111		BDE-MP2652R7A32	• PCB trace									
	112		BDE-MP2652R7N0	• ANT pin									
	113		BDE-MP2652R7U0	• U.FL	Not Included								
	114		BDE-MP2652R7A0	• PCB trace									




Category	NO.	TI Chipset	Module Picture	Orderable Part Number	Technology & Protocol	MCU	RF	Operating Temp. (°C)	Dimension (mm)	Certification	Antenna	On-board SPI Flash	
2.4G Multi-Protocol	115	CC2651R3		BDE-MP2651R3N32	<ul style="list-style-type: none"> • Zigbee® • BLE 5.2 • SimpleLink™ TI 15.4-Stack • Proprietary 	<ul style="list-style-type: none"> • Cortex®-M4 • Flash: 352kB • SRAM: 32kB • 2.91mA@Active • 0.8uA@Standby • 0.1uA@Shutdown 	<ul style="list-style-type: none"> • TX power: +5dBm@2.4G • RX Sensitivity: -104dBm@BLE 125kbps • 6.4mA@RX@2.4G • 9.5mA@TX@+5dBm@2.4G 	-40 to +85	21.5 x 15 x 2.15	<ul style="list-style-type: none"> • Bluetooth • FCC • IC • CE 	• ANT pin	32Mbit	
	116			BDE-MP2651R3U32							• U.FL		
	117			BDE-MP2651R3A32							• PCB trace		
	118			BDE-MP2651R3N0							• ANT pin		
	119			BDE-MP2651R3U0							• U.FL		Not Included
	120			BDE-MP2651R3A0							• PCB trace		
	121		CC2652R								BDE-RFM207		<ul style="list-style-type: none"> • Thread • Zigbee® • BLE 5.2 • IEEE 802.15.4 • SimpleLink™ TI 15.4-Stack(2.4GHz) • 6LoWPAN • Proprietary
	122			BDE-RFM207-IN	• PCB trace								

Category	NO.	TI Chipset	Module Picture	Orderable Part Number	Technology & Protocol	MCU	RF	Operating Temp. (°C)	Dimension (mm)	Certification	Antenna	On-board SPI Flash					
Bluetooth Low Energy	123	CC2340R5 (RKP)		BDE-LE2340R5KPN32	<ul style="list-style-type: none"> • BLE 5.3 • Zigbee® • SimpleLink™ TI 15.4-Stack • Proprietary 	<ul style="list-style-type: none"> • Cortex®-M0+ • Flash: 512kB • SRAM: 36kB • 2.6mA@Active • <0.71uA@Standby • 0.15uA@Shutdown 	<ul style="list-style-type: none"> • TX power: +8dBm • RX Sensitivity: -102dBm@BLE 125kbps • -96.5dBm@BLE 1Mbps • 5.3mA@RX • <11.0mA@TX@+8dBm 	<ul style="list-style-type: none"> • Bluetooth • FCC • IC • CE 	11.5 x 9.7 x 2	<ul style="list-style-type: none"> • ANT pin 	<ul style="list-style-type: none"> • U.FL 	<ul style="list-style-type: none"> • Chip antenna 	<ul style="list-style-type: none"> • 32Mbit 				
	124			BDE-LE2340R5KPU32					11.5 x 9.7 x 2					• ANT pin	• U.FL	• Chip antenna	• 32Mbit
	125			BDE-LE2340R5KPA32					11.5 x 9.7 x 2					• ANT pin	• U.FL	• Chip antenna	• 32Mbit
	126			BDE-LE2340R5KPN32-IN					11.5 x 9.7 x 2					• ANT pin	• U.FL	• Chip antenna	• 32Mbit
	127			BDE-LE2340R5KPU32-IN					11.5 x 9.7 x 2					• ANT pin	• U.FL	• Chip antenna	• 32Mbit
	128			BDE-LE2340R5KPA32-IN					11.5 x 9.7 x 2					• ANT pin	• U.FL	• Chip antenna	• 32Mbit
	129			BDE-LE2340R5KPN0					11.5 x 9.7 x 2					• ANT pin	• U.FL	• Chip antenna	• 32Mbit
	130			BDE-LE2340R5KPU0					11.5 x 9.7 x 2					• ANT pin	• U.FL	• Chip antenna	• 32Mbit
	131			BDE-LE2340R5KPA0					11.5 x 9.7 x 2					• ANT pin	• U.FL	• Chip antenna	• 32Mbit
	132			BDE-LE2340R5KPN0-IN					11.5 x 9.7 x 2					• ANT pin	• U.FL	• Chip antenna	• 32Mbit
	133			BDE-LE2340R5KPU0-IN					11.5 x 9.7 x 2					• ANT pin	• U.FL	• Chip antenna	• 32Mbit
	134			BDE-LE2340R5KPA0-IN					11.5 x 9.7 x 2					• ANT pin	• U.FL	• Chip antenna	• 32Mbit





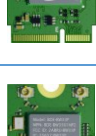


Category	NO.	TI Chipset	Module Picture	Orderable Part Number	Technology & Protocol	MCU	RF	Operating Temp. (°C)	Dimension (mm)	Certification	Antenna	On-board SPI Flash
Bluetooth Low Energy	135	CC2340R5 (RGE)		BDE-LE2340R5GEN32	<ul style="list-style-type: none"> • BLE 5.3 • Zigbee® • SimpleLink™ TI 15.4-Stack • Proprietary 			-40 to +85	11.5 x 9.7 x 2	<ul style="list-style-type: none"> • Bluetooth • FCC • IC • CE 	• ANT pin	32Mbit
	136			BDE-LE2340R5GEU32					• U.FL			
	137			BDE-LE2340R5GEA32					• Chip antenna			
	138			BDE-LE2340R5GEN32-IN					• ANT pin			
	139			BDE-LE2340R5GEU32-IN					• U.FL			
	140			BDE-LE2340R5GEA32-IN					• Chip antenna			
	141			BDE-LE2340R5GEN0					• ANT pin			
	142			BDE-LE2340R5GEU0					• U.FL			
	143			BDE-LE2340R5GEA0					• Chip antenna			
	144			BDE-LE2340R5GEN0-IN					• ANT pin		Not Included	
145		BDE-LE2340R5GEU0-IN	• U.FL									
146		BDE-LE2340R5GEA0-IN	• Chip antenna									

Category	NO.	TI Chipset	Module Picture	Orderable Part Number	Technology & Protocol	MCU	RF	Operating Temp. (°C)	Dimension (mm)	Certification	Antenna	On-board SPI Flash
Bluetooth Low Energy	147	CC2642R		BDE-BLEM205	BLE 5.2	<ul style="list-style-type: none"> Cortex®-M4F Flash: 352kB SRAM: 80kB 3.4mA@Active 0.94uA@Standby 0.15uA@Shutdown 	<ul style="list-style-type: none"> TX power: +5dBm RX Sensitivity: -105dBm@BLE 125kbps -97dBm@BLE 1Mbps 6.9mA@RX 9.6mA@TX@+5dBm 	-40 to +85	22.95 x 15 x 2.05		• PCB trace	Not Included
	148			BDE-BLEM205-IN				-40 to +105			• PCB trace	
	149			BDE-BLEM215				-40 to +85	22 x 15 x 2.05		• U.FL	
	150	CC2642R-Q1		BDE-BLEM205-Q1				-40 to +105	22.95 x 15 x 2.05		• PCB trace	
	151	CC2640R2F (RHB)		BDE-LE2640R2FN32	BLE 5.1	<ul style="list-style-type: none"> Cortex®-M3 Flash: 128kB SRAM: 20kB 2.9mA@Active 1.1uA@Standby 0.1uA@Shutdown 	<ul style="list-style-type: none"> TX power: +5dBm RX Sensitivity: -103dBm@BLE 125kbps -97dBm@BLE 1Mbps 5.9mA@RX@ 9.1mA@TX@+5dBm 	-40 to +85	11.6 x 11 x 2.1	<ul style="list-style-type: none"> Bluetooth FCC IC CE 	• ANT pin	32Mbit
	152			BDE-LE2640R2FU32							• U.FL	
	153			BDE-LE2640R2FA32					• Chip antenna			
	154			BDE-LE2640R2FN0					• ANT pin			
	155			BDE-LE2640R2FU0					• U.FL		Not Included	
	156			BDE-LE2640R2FA0					• Chip antenna			

Category	NO.	TI Chipset	Module Picture	Orderable Part Number	Technology & Protocol	MCU	RF	Operating Temp. (°C)	Dimension (mm)	Certification	Antenna	On-board SPI Flash
Bluetooth Low Energy	157	CC2640R2L (RHB)		BDE-LE2640R2LN32	BLE 5.1	<ul style="list-style-type: none"> Cortex®-M3 Flash: 128kB SRAM: 20kB 2.9mA@Active 1.5uA@Standby 0.1uA@Shutdown 	<ul style="list-style-type: none"> TX power: +5dBm RX Sensitivity: -97dBm@BLE 1Mbps 5.9mA@RX@2.4G 9.1mA@TX@+5dBm 	-40 to +85	11.6 x 11 x 2.1	<ul style="list-style-type: none"> Bluetooth FCC IC CE 	• ANT pin	32Mbit
	158			BDE-LE2640R2LU32					• U.FL			
	159			BDE-LE2640R2LA32					• Chip antenna			
	160			BDE-LE2640R2LN0					• ANT pin			
	161			BDE-LE2640R2LU0					• U.FL		Not Included	
	162			BDE-LE2640R2LA0					• Chip antenna			
	163		CC2640R2F (RSM)						BDE-BLEM203D		BLE 5.1	
	164	CC2541		BDE-BLEM201P	<ul style="list-style-type: none"> BLE 5.0 Proprietary 	<ul style="list-style-type: none"> 8051 Flash: 256kB SRAM: 8kB 0.27mA@Wake-Up 1.0uA@Sleep Timer On 0.5uA@External Interrupts 	<ul style="list-style-type: none"> TX power: +0dBm RX Sensitivity: -94dBm@BLE 1Mbps 17.9mA@RX 18.2mA@TX@+0dBm 	16.55 x 10.88 x 2.3	• Chip antenna	Not Included		
	165			BDE-BLEM211					• ANT pin			

Category	NO.	TI Chipset	Module Picture	Orderable Part Number	Technology & Protocol	MCU	RF	Operating Temp. (°C)	Dimension (mm)	Certification	Antenna	On-board SPI Flash
Bluetooth Dual-mode	166	CC2564C		BDE-BD2564CN	• Bluetooth 5.1 with BR, EDR, LE	No MCU	<ul style="list-style-type: none"> • TX power: +8dBm • RX Sensitivity: -96dBm@BLE 1Mbps • 41.2mA@EDRfullthrtpt • 114uA@BLE Adv • 169uA@BLEConnectd 	-40 to +85	7 x 7 x 1.55 (P2P compatible with TI's CC2564MODN)	<ul style="list-style-type: none"> • Bluetooth • FCC • IC • CE • TELEC 	• ANT pin	Not Included
	167			BDE-BD2564CA					14 x 7 x 1.55 (P2P compatible with TI's CC2564MODA)		• Chip antenna	
	168			BDE-BDM209A					<ul style="list-style-type: none"> • Cortex®-M4F • Flash: 256kB • SRAM: 64kB • Active: 80 µA/MHz • Low-frequency active: 83 µA at 128 kHz • LPM4.5: 25nA 		22 x 12 x 2.15	







Category	NO.	TI Chipset	Module Picture	Orderable Part Number	Technology & Protocol	MCU	RF	Operating Temp. (°C)	Dimension (mm)	Certification	Antenna	On-board SPI Flash/PSRAM
Wi-Fi & Bluetooth Combo MCU	169	CC3551E CC3501E		BDE-BW3551P1N BDE-BW3501P1N	<ul style="list-style-type: none"> • Wi-Fi 6 (802.11.b/g/n/ax): 2.4GHz & 5G (5G only for 3551 variants) • BLE 5.4 	<ul style="list-style-type: none"> • 160MHz Arm®Cortex®-M33 • FPU • TrustZone® • AI acceleration • Up to 32MB XiP flash • Up to 8MB optional PSRAM 	<ul style="list-style-type: none"> • TX power: <ul style="list-style-type: none"> +18dBm@Wi-Fi 2.4G@1 DSSS +18dBm@ Wi-Fi 2.4G@HE MCS0 +16dBm@BLE 2.4G • RX Sensitivity: <ul style="list-style-type: none"> -97dBm@Wi-Fi 2.4G@1 DSSS -91.5dBm@Wi-Fi 2.4G@HE MCS0 -97.5dBm@BLE 1Mbps 	-40 to +85	15 x 19 x 3.3	<ul style="list-style-type: none"> • Bluetooth • FCC • IC • CE • TELEC 	• ANT pin	<ul style="list-style-type: none"> • XiP flash: up to 32MB • Optional PSRAM: up to 8MB
	170			BDE-BW3551P1U BDE-BW3501P1U					• U.FL			
	171			BDE-BW3551P1A BDE-BW3501P1A					• PCB trace			
	172			BDE-BW3551P2N BDE-BW3501P2N					• ANT pin • Dual antenna			
	173			BDE-BW3551P2U BDE-BW3501P2U					• U.FL • Dual antenna			
	174			BDE-BW3551N BDE-BW3501N					• ANT pin			
	175			BDE-BW3551U BDE-BW3501U					• U.FL			
	176			BDE-BW3551A BDE-BW3501A					• PCB trace			
Wi-Fi & Bluetooth Combo	177	CC3351 CC3350 CC3301 CC3300		BDE-BW3351NP1 BDE-BW3350NP1 BDE-BW3301NP1 BDE-BW3300NP1 BDE-BW3351NP1-IN BDE-BW3350NP1-IN BDE-BW3301NP1-IN BDE-BW3300NP1-IN	<ul style="list-style-type: none"> • Wi-Fi 6 (802.11.b/g/n/ax): 2.4GHz & 5G (5G only for 3351/3350 variants) • BLE 5.3 (BLE only for 3351/3301 variants) 	No MCU	<ul style="list-style-type: none"> • TX power: <ul style="list-style-type: none"> +20dBm@Wi-Fi 2.4G@1 DSSS +19dBm@ Wi-Fi 2.4G@HE MCS0 +20dBm@BLE 2.4G • RX Sensitivity: <ul style="list-style-type: none"> -98dBm@Wi-Fi 2.4G@1 DSSS -88dBm@Wi-Fi 2.4G@HE MCS0 -99.4dBm@BLE 1Mbps • 66mA@RX@Wi-Fi • 260mA@TX@+19dBm@Wi-Fi 2.4G MCS0 HE • BLE: <ul style="list-style-type: none"> 240uA@Advertise@1s Interval 110uA@Connection@1s Interval 	-40 to +85 -40 to +105 (105 support only for -IN variants)	13.3 x 13.4 x 2 (P2P compatible with TI's WL1837MOD)	<ul style="list-style-type: none"> • Bluetooth • FCC • IC • CE • TELEC 	• ANT pin	Not Included
	178			BDE-BW3351NP2 BDE-BW3350NP2 BDE-BW3300NP2 BDE-BW3351NP2-IN BDE-BW3350NP2-IN BDE-BW3300NP2-IN					• ANT pin			
	179			BDE-BW3351UP1 BDE-BW3350UP1 BDE-BW3300UP1 BDE-BW3351UP1-IN BDE-BW3350UP1-IN BDE-BW3300UP1-IN					• U.FL			
	180			BDE-BW3351UP2 BDE-BW3350UP2 BDE-BW3300UP2 BDE-BW3351UP2-IN BDE-BW3350UP2-IN BDE-BW3300UP2-IN					• U.FL			

181			BDE-BW3351AP1 BDE-BW3350AP1 BDE-BW3301AP1 BDE-BW3300AP1 BDE-BW3351AP1-IN BDE-BW3350AP1-IN BDE-BW3301AP1-IN BDE-BW3300AP1-IN						• PCB trace
182			BDE-BW3351N1 BDE-BW3350N1 BDE-BW3301N1 BDE-BW3300N1 BDE-BW3351N1-IN BDE-BW3350N1-IN BDE-BW3301N1-IN BDE-BW3300N1-IN				11 x 11 x 2		• ANT pin
183			BDE-BW3351U1 BDE-BW3350U1 BDE-BW3301U1 BDE-BW3300U1 BDE-BW3351U1-IN BDE-BW3350U1-IN BDE-BW3301U1-IN BDE-BW3300U1-IN				15 x 11 x 2		• U.FL
184			BDE-BW3351A1 BDE-BW3350A1 BDE-BW3301A1 BDE-BW3300A1 BDE-BW3351A1-IN BDE-BW3350A1-IN BDE-BW3301A1-IN BDE-BW3300A1-IN				15 x 11 x 2		• Chip antenna
185			BDE- BW3351NP1M2 BDE- BW3350NP1M2 BDE- BW3301NP1M2 BDE- BW3300NP1M2						• U.FL
186			BDE- BW3351NP2M2 BDE- BW3350NP2M2 BDE- BW3301NP2M2 BDE- BW3300NP2M2				30 x 22 x 2.8		• U.FL
187	WL1837		BDE-BW2837	<ul style="list-style-type: none"> • 802.11a/b/g/n: 2.4 GHz and 5 GHz • Bluetooth 5.1 with BR, EDR, LE 	<ul style="list-style-type: none"> • TX power: +17.3dBm@Wi-Fi 2.4G@1 DSSS +18dBm@Wi-Fi 5G@6 OFDM • RX Sensitivity: -95dBm@Wi-Fi 2.4G@1 DSSS -92.5dBm@Wi-Fi 5G@6 OFDM • 510mA@TX@Wi-Fi 2.4G@20M MIMO MCS15 • 329mA@TX@Wi-Fi 5G@20M SISO 54 OFDM 		13.3 x 13.4 x 2 (P2P compatible with TI's WL1837MOD)	• ANT pin	

Category	NO.	TI Chipset	Module Picture	Orderable Part Number	Technology & Protocol	MCU	RF	Operating Temp. (°C)	Dimension (mm)	Certification	Antenna	On-board SPI Flash
Wi-Fi MCU	188	CC3235SF		BDE-WF3235SFN32	• 802.11a/b/g/n: 2.4 GHz and 5 GHz	<ul style="list-style-type: none"> Cortex®-M4 Flash: 1024kB RAM: 256kB 120uA@LPDS 710uA@Idle Connected 1uA@Shutdown 4.5uA@Hibernate 	<ul style="list-style-type: none"> TX power: +18dBm@Wi-Fi 2.4G@1 DSSS +18.1dBm@Wi-Fi 5G@6 OFDM RX Sensitivity: -96dBm@Wi-Fi 2.4G@1 DSSS -92dBm@Wi-Fi 5G@6 OFDM 59mA@RX@Wi-Fi 2.4G 223mA@TX@Wi-Fi 2.4G 	-40 to +85	20.5 x 17.5 x 2.4 (P2P compatible with TI's CC3235MODSF)	• FCC • IC • CE	• ANT pin	32Mbit
	189			BDE-WF3235SFAU32					• U.FL			
	190			BDE-WF3235SFA32					• PCB trace			
	191	CC3235S		BDE-WF3235SN32	• 802.11a/b/g/n: 2.4 GHz and 5 GHz	<ul style="list-style-type: none"> Cortex®-M4 RAM: 256kB 120uA@LPDS 710uA@Idle Connected 1uA@Shutdown 4.5uA@Hibernate 	<ul style="list-style-type: none"> TX power: +18dBm@Wi-Fi 2.4G@1 DSSS +18.1dBm@Wi-Fi 5G@6 OFDM RX Sensitivity: -96dBm@Wi-Fi 2.4G@1 DSSS -92dBm@Wi-Fi 5G@6 OFDM 59mA@RX@Wi-Fi 2.4G 223mA@TX@Wi-Fi 2.4G 	-40 to +85	20.5 x 17.5 x 2.4 (P2P compatible with TI's CC3235MODS)	• FCC • IC • CE	• ANT pin	32Mbit
	192			BDE-WF3235SAU32					• U.FL			
	193			BDE-WF3235SA32					• PCB trace			
	194	CC3230SF		BDE-WF3230SFN32	• 802.11b/g/n: 2.4 GHz	<ul style="list-style-type: none"> Cortex®-M4 Flash: 1024kB RAM: 256kB 120uA@LPDS 710uA@Idle Connected 1uA@Shutdown 4.5uA@Hibernate 	<ul style="list-style-type: none"> TX power: +18dBm@Wi-Fi 2.4G@1 DSSS +14.5dBm@Wi-Fi 2.4G@54 OFDM RX Sensitivity: -96.0m@Wi-Fi 2.4G@1 DSSS -74.5m@Wi-Fi 2.4G@54 OFDM 59mA@RX@Wi-Fi 2.4G 223mA@TX@Wi-Fi 2.4G 	-40 to +85	20.5 x 17.5 x 2.4	• FCC • IC • CE	• ANT pin	32Mbit
	195			BDE-WF3230SFAU32					• U.FL			
	196			BDE-WF3230SFA32					• PCB trace			
	197	CC3230S		BDE-WF3230SN32	• 802.11b/g/n: 2.4 GHz	<ul style="list-style-type: none"> Cortex®-M4 RAM: 256kB 120uA@LPDS 710uA@Idle Connected 1uA@Shutdown 4.5uA@Hibernate 	<ul style="list-style-type: none"> TX power: +18dBm@Wi-Fi 2.4G@1 DSSS +14.5dBm@Wi-Fi 2.4G@54 OFDM RX Sensitivity: -96.0m@Wi-Fi 2.4G@1 DSSS -74.5m@Wi-Fi 2.4G@54 OFDM 59mA@RX@Wi-Fi 2.4G 223mA@TX@Wi-Fi 2.4G 	-40 to +85	20.5 x 17.5 x 2.4	• FCC • IC • CE	• ANT pin	32Mbit
	198			BDE-WF3230SAU32					• U.FL			
	199			BDE-WF3230SA32					• PCB trace			

Category	NO.	TI Chipset	Module Picture	Orderable Part Number	Technology & Protocol	MCU	RF	Operating Temp. (°C)	Dimension (mm)	Certification	Antenna	On-board SPI Flash		
Wi-Fi MCU	200	CC3220SF		BDE-WF3220SFN32	802.11b/g/n: 2.4 GHz			-40 to +85	20.5 x 17.5 x 2.4 (P2P compatible with TI's CC3220MODSF)	FCC IC CE	• ANT pin	32Mbit		
	201			BDE-WF3220SFAU32					<ul style="list-style-type: none"> • Cortex®-M4 • Flash: 1024kB • RAM: 256kB • 135uA@LPDS • 710uA@Idle • 1uA@Shutdown • 4.5uA@Hibernate 		<ul style="list-style-type: none"> • TX power: +18dBm@Wi-Fi 2.4G@1 DSSS • +14.5dBm@Wi-Fi 2.4G@54 OFDM • RX Sensitivity: -96.0m@Wi-Fi 2.4G@1 DSSS • -74.5m@Wi-Fi 2.4G@54 OFDM • 59mA@RX@Wi-Fi 2.4G • 223mA@TX@Wi-Fi 2.4G 		25 x 20.5 x 2.4 (P2P compatible with TI's CC3220MODASF)	• U.FL
	202			BDE-WF3220SFA32					• PCB trace					
	203	CC3220S		BDE-WF3220SN32	802.11b/g/n: 2.4 GHz			-40 to +85	20.5 x 17.5 x 2.4 (P2P compatible with TI's CC3220MODS)	FCC IC CE	• ANT pin	32Mbit		
	204			BDE-WF3220SAU32					<ul style="list-style-type: none"> • Cortex®-M4 • RAM: 256kB • 135uA@LPDS • 710uA@Idle • 1uA@Shutdown • 4.5uA@Hibernate 		<ul style="list-style-type: none"> • TX power: +18dBm@Wi-Fi 2.4G@1 DSSS • +14.5dBm@Wi-Fi 2.4G@54 OFDM • RX Sensitivity: -96.0m@Wi-Fi 2.4G@1 DSSS • -74.5m@Wi-Fi 2.4G@54 OFDM • 59mA@RX@Wi-Fi 2.4G • 223mA@TX@Wi-Fi 2.4G 		25 x 20.5 x 2.4 (P2P compatible with TI's CC3220MODAS)	• U.FL
	205			BDE-WF3220SA32					• PCB trace					
	206	CC3200		BDE-WF3200N32	802.11b/g/n: 2.4 GHz			-40 to +85	20.5 x 17.5 x 2.4 (P2P compatible with TI's CC3200MOD)	FCC IC CE	• ANT pin	32Mbit		
	207			BDE-WF3200AU32					<ul style="list-style-type: none"> • Cortex®-M4 • RAM: 36kB • 250uA@LPDS • 825uA@Idle • 4uA@Hibernate 		<ul style="list-style-type: none"> • TX power: +18dBm@Wi-Fi 2.4G@1 DSSS • +14.5dBm@Wi-Fi 2.4G@54 OFDM • RX Sensitivity: -95.7m@Wi-Fi 2.4G@1 DSSS • -74.0m@Wi-Fi 2.4G@54 OFDM • 59mA@RX@Wi-Fi 2.4G • 278mA@TX@Wi-Fi 2.4G 		25 x 20.5 x 2.4	• U.FL
	208			BDE-WF3200A32					• PCB trace					
	209	CC3135		BDE-WF3135N	802.11a/b/g/n: 2.4 GHz and 5 GHz	No MCU		-40 to +85	20.5 x 17.5 x 2.4 (P2P compatible with TI's CC3135MOD)	FCC IC CE	• ANT pin	32Mbit		
	210			BDE-WF3135AU					<ul style="list-style-type: none"> • TX power: +18dBm@Wi-Fi 2.4G@1 DSSS • +18.1dBm@Wi-Fi 5G@6 OFDM • RX Sensitivity: -96m@Wi-Fi 2.4G@1 DSSS • -92m@Wi-Fi 5G@6 OFDM • 53mA@RX@Wi-Fi 2.4G • 223mA@TX@Wi-Fi 2.4G 		25 x 20.5 x 2.4		• U.FL	
211			BDE-WF3135A	• PCB trace										

Category	NO.	TI Chipset	Module Picture	Orderable Part Number	Technology & Protocol	MCU	RF	Operating Temp. (°C)	Dimension (mm)	Certification	Antenna	On-board SPI Flash
Sub-1G	212	CC1314R10		BDE-SG1314R10N32	<ul style="list-style-type: none"> • Wi-SUN® • mioty® • Amazon Sidewalk • Wireless M-Bus • SimpleLink™ TI 15.4-Stack (Sub-1G) • Proprietary 	<ul style="list-style-type: none"> • Cortex®-M33 • Flash: 1024kB • SRAM: 256kB • 3.4mA@Active • 0.98uA@Standby • 0.17uA@Shutdown 	<ul style="list-style-type: none"> • TX power: +14dBm@868M • RX Sensitivity: -121dBm@2.5kbps • -110dBm@50kbps • 5.8mA@RX@868M • 25.8mA@TX@+14dBm@868M 	-40 to +85	22 x 15 x 2.15	<ul style="list-style-type: none"> • FCC • IC • CE 	• ANT pin	32Mbit
	213			BDE-SG1314R10U32							• U.FL	
	214			BDE-SG1314R10N0							• ANT pin	Not Included
	215			BDE-SG1314R10U0							• U.FL	
	216	CC1312R7		BDE-SG1312R7N32	<ul style="list-style-type: none"> • Wi-SUN® • mioty® • Amazon Sidewalk • Wireless M-Bus • SimpleLink™ TI 15.4-Stack (Sub-1G) • 6LoWPAN • Proprietary 	<ul style="list-style-type: none"> • Cortex®-M4F • Flash: 704kB • SRAM: 144kB • 2.63mA@Active • 0.8uA@Standby • 0.1uA@Shutdown 	<ul style="list-style-type: none"> • TX power: +14dBm@868M • RX Sensitivity: -121dBm@2.5kbps • -110dBm@50kbps • 5.4mA@RX@868M • 24.9mA@TX@+14dBm@868M 	-40 to +85	22 x 15 x 2.15	<ul style="list-style-type: none"> • FCC • IC • CE 	• ANT pin	32Mbit
	217			BDE-SG1312R7U32							• U.FL	
	218			BDE-SG1312R7N0							• ANT pin	Not Included
	219			BDE-SG1312R7U0							• U.FL	
	220	CC1311R3		BDE-SG1311R3N32	<ul style="list-style-type: none"> • mioty® • Wireless M-Bus • SimpleLink™ TI 15.4-Stack (Sub-1G) • 6LoWPAN • Proprietary 	<ul style="list-style-type: none"> • Cortex®-M4 • Flash: 352kB • SRAM: 32kB • 2.63mA@Active • 0.7uA@Standby • 0.1uA@Shutdown 	<ul style="list-style-type: none"> • TX power: +14dBm@868M • RX Sensitivity: -121dBm@2.5kbps • -110dBm@50kbps • 5.4mA@RX@868M • 24.9mA@TX@+14dBm@868M 	-40 to +85	22 x 15 x 2.15	<ul style="list-style-type: none"> • FCC • IC • CE 	• ANT pin	32Mbit
	221			BDE-SG1311R3U32							• U.FL	
	222			BDE-SG1311R3N0							• ANT pin	Not Included
	223			BDE-SG1311R3U0							• U.FL	

Category	NO.	TI Chipset	Module Picture	Orderable Part Number	Technology & Protocol	MCU	RF	Operating Temp. (°C)	Dimension (mm)	Certification	Antenna	On-board SPI Flash
Sub-1G	224	CC1312R		BDE-RFM206	<ul style="list-style-type: none"> IEEE 802.15.4g Wi-SUN® mioty® Amazon Sidewalk Wireless M-Bus SimpleLink™ TI 15.4-Stack (Sub-1G) KNX RF 6LoWPAN Proprietary 	<ul style="list-style-type: none"> Cortex®-M4F Flash: 352KB SRAM: 80KB 2.9mA@Active 0.85uA@Standby 0.15uA@Shutdown 	<ul style="list-style-type: none"> TX power: +14dBm@868M RX Sensitivity: -121dBm@SimpleLink long-range mode -110dBm@50 kbps 5.8mA@RX@868M 24.9mA@TX@+14dBm@868M 	-40 to +85	25 x 15 x 2.15		• PCB trace	Not included
	225			BDE-RFM216								
	226	CC1310F128 (RGZ)		BDE-RFM204A	<ul style="list-style-type: none"> IEEE 802.15.4g Wi-SUN® Wireless M-Bus 6LoWPAN Proprietary 	<ul style="list-style-type: none"> Cortex®-M3 Flash: 128KB SRAM: 20KB 2.5mA@Active 0.70uA@Standby 0.185uA@Shutdown 	<ul style="list-style-type: none"> TX power: +15dBm@868M RX Sensitivity: -124dBm@Using long-range mode -110dBm@50 kbps 5.4mA@RX@868M 13.4mA@TX@+10dBm@868M 		<ul style="list-style-type: none"> FCC IC CE 	25 x 15 x 2.15	• PCB trace	
	227			BDE-RFM214A								
	228	CC1310F128 (RSM)		BDE-RFM204	20.5 x 13 x 2.1	• PCB trace						
229			BDE-RFM214	13 x 13 x 2.1	• U.FL							



BDE Technology was founded in 2009 in Chicago, Illinois. The company specializes in wireless technologies, particularly Wi-Fi, Bluetooth, Bluetooth Low Energy, Zigbee, Thread, Sub-1 GHz, Wi-SUN, Amazon Sidewalk, Matter, RFID and NB-IoT etc. BDE is committed to providing wireless IoT modules and solutions to OEMs, system integrators, device manufacturers and solution providers worldwide.

BDE is a Texas Instruments (TI) authorized third party module provider. BDE provides across-the-board TI wireless modules. For every TI wireless IC, BDE builds a series of modules around it. Working closely with TI wireless BU, BDE synchronizes the module development progress with that of the chips. The modules are sampled and released to the market at the same time as the ICs.

BDE is a Bluetooth SIG recommended service provider for Prequalified Components, OEM & ODM Products & Reference Designs and Software Application Development.

Equipped with BDE's innovative products and outstanding services which include wireless modules, HW/SW custom design services, certification services and world class expertise, customers are able to shorten development cycles, reduce design uncertainty, lower market risk, minimize cost, and release more competitive products into markets quickly. BDE's flexible, highly integrated products and solutions are able to be customized to the most demanding requirements in numerous IoT devices and applications in the fields of industrial automation, medical and health care, automotive, smart energy, smart building, home automation, sports & fitness and consumer electronics etc.

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