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Module	Part Number	Chip	Connectivity	Industr ial Grade Operati on Temp.	Dimension	Current Consumption	Range	Antenn a	Comments
				Blueto	oth/Wi	-Fi Combo			
BDE-BW2837	BDE-BW2837	WL1837	Wi-Fi 5GHz/2.4GH z dual-band, BR/EDR/BLE Dual-Mode BT5.1	NO -40 ℃ ~ 85℃	13.3mm x 13.4mm x 2mm	510mA@WiFiTx@2.4 GHz TX 20 M MIMO MCS15 329mA@WiFi@5GHz TX 20 M SISO 54 OFDM	800m+/ Wi-Fi 200m+ /BT	PAD	pin-to-pin compatible w/ TI WL1837MOD, WL1807MOD
BDF-BW20C BDF-BW20C BDF-BW20C CO BHEAWOR CO BHEAWOR CO BHEAWOR CO BHEAWOR	BDE-BW20C	CC3235 + CC2652P	Wi-Fi 5GHz/2.4GH z dual-band and BLE 5.2/ Zigbee/ Thread/ IEEE802.15. 4/ 6LoWPAN/ Wi-SUN, etc.	NO -40 ℃ ~ 85℃	29mm x 29mm x 2.3mm	WiFi: 272mA@2.4GHz,16dB m@1DSSS 318mA@5GHz:,15.1d Bm@6OFDM BLE/ZigBee: 0.94uA @ Standby 6.9mA @ RX 7.3mA @ TX @ 0dBm 9.6mA @ TX @ 5dBm 22mA @ TX @ 10dBm 85mA @ TX @ 20dBm	800m+/ Wi-Fi 200m+ /BT	Chip antenn a/ UFL connec tor	
					Wi-F	i			
WF3235SFN32 EC:D: JANUM UFERSE I: C:D: DAVE DAVE I: C:D: DAVE DAVE I: C:D: DAVE DAVE I: C:D: DAVE DAVE I: C:D: DAVE DAVE DAVE DAVE I: C:D: DAVE DAVE DAVE DAVE I: C:D: DAVE DAVE DAVE DAVE DAVE DAVE I: C:D: DAVE DAVE DAVE DAVE DAVE DAVE DAVE DAVE	WF3235SFN32	CC3235SF	Wi-Fi 5GHz/2.4GH z dual-band	NO -40 ℃ ~ 85℃	17.5mm x 20.5mm x 2.4mm	RX traffic (MCU active): 59 mA TX traffic (MCU active): 223 mA	800m+	PAD	WF3235SFN32, WF3235SFN0, WF3235SN32, WF3230SFN32, WF3230SFN0, WF3230SN32, WF3135N are pin-to-pin compatible w/ TI CC3135MOD, CC3235MODS, CC3235MODSF
WF32355FN0 WF32355FN0 CC: 2487 WF238X C: 2487 WF238X	WF3235SFN0	CC3235SF	Wi-Fi 5GHz/2.4GH z dual-band	NO -40 ℃ ~ 85℃	17.5mm x 20.5mm x 2.4mm	RX traffic (MCU active): 59 mA TX traffic (MCU active): 223 mA	800m+	PAD	WF3235SFN32, WF3235SFN0, WF3235SN32, WF3230SFN32, WF3230SFN0, WF3230SN32, WF3135N are pin-to-pin compatible w/ TI CC3135MOD, CC3235MODS, CC3235MODSF
WF32355FA32 BDFF KC-0-MANUHETIX KC-0-MANUHETIX	WF3235SFA32	CC32355F	Wi-Fi 5GHz/2.4GH z dual-band	NO -40 ℃ ~ 85℃	23mm x 20.5mm x 2.4mm	RX traffic (MCU active): 59 mA TX traffic (MCU active): 223 mA	800m+	PCB antenn a	WF3235SFA32, WF3235SFAU32, WF3235SFA0, WF3235SFAU0, WF3235SFA2, WF3235SFAU32, WF3230SFA32, WF3230SFAU32, WF3230SFA32, WF3230SFAU0, WF3230SFA0, WF3230SFAU0, WF3230SA32, WF3230SAU32, WF3135A, Wf3135AU are pin-to-pin compatible w/ CC3235MODASF, CC3235MODAS



WF32355FAU32 BBEE PCC-0: JAMU WT325X C: 26657-WF325X	WF3235SFAU3 2	CC3235SF	Wi-Fi 5GHz/2.4GH z dual-band	NO -40 ℃ ~ 85℃	23mm x 20.5mm x 2.4mm	RX traffic (MCU active): 59 mA TX traffic (MCU active): 223 mA	800m+	UFL connec tor	WF3235SFA32, WF3235SFAU32, WF3235SFA0, WF3235SFAU0, WF3235SFA0, WF3235SFAU32, WF3230SFA32, WF3230SFAU32, WF3230SFA0, WF3230SFAU0, WF3230SA32, WF3230SFAU0, WF3230SA32, WF3230SAU32, WF3135A, Wf3135AU are pin-to-pin compatible w/ TI CC3235MODASF, CC3235MODAS
WF3235SFA0 DEDEE ECC 02 JAMON WF3205K ECC 03 JAMON WF3205K	WF3235SFA0	CC32355F	Wi-Fi 5GHz/2.4GH z dual-band	NO -40 ℃ ~ 85℃	23mm x 20.5mm x 2.4mm	RX traffic (MCU active): 59 mA TX traffic (MCU active): 223 mA	800m+	PCB antenn a	WF3235SFA32, WF3235SFAU32, WF3235SFA0, WF3235SFAU0, WF3235SFA2, WF3235SAU32, WF3230SFA32, WF3230SFAU32, WF3230SFA0, WF3230SFAU0, WF3230SFA0, WF3230SFAU0, WF3230SFA0, WF3230SAU32, WF3135A, WF3135AU are pin-to- pin compatible w/ TI CC3235MODASF, CC3235MODASF
CC DI JAMU WI JISK C. DIGO WI JISK C. DIGO WI JISK	WF3235SFAU0	CC32355F	Wi-Fi 5GHz/2.4GH z dual-band	NO -40 ℃ ~ 85℃	23mm x 20.5mm x 2.4mm	RX traffic (MCU active): 59 mA TX traffic (MCU active): 223 mA	800m+	UFL connec tor	WF3235SFA32, WF3235SFAU32, WF3235SFA0, WF3235SFAU0, WF3235SA32, WF3235SAU32, WF3230SFA32, WF3230SFAU32, WF3230SFA0, WF3230SFAU0, WF3230SA32, WF3230SAU32, WF3135A, Wf3135AU are pin-to- pin compatible w/ TI CC3235MODASF, CC3235MODAS
WF32355N32 DEC JARON MEDSE CLOBARD MEDSE CLOBARD MEDSE CLOBARD MEDSE CLOBARD MEDSE	WF3235SN32	CC3235S	Wi-Fi 5GHz/2.4GH z dual-band	NO -40 ℃ ~ 85℃	17.5mm x 20.5mm x 2.4mm	RX traffic (MCU active): 59 mA TX traffic (MCU active): 223 mA	800m+	PAD	WF3235SFN32, WF3235SFN0, WF3235SN32, WF3230SFN32, WF3230SFN0, WF3230SN32, WF3135N are pin-to-pin compatible w/ TI CC3135MOD, CC3235MODS, CC3235MODSF
WF3235SA32 BEE KC 0: JABIU WF325K K: 25657 WF225K	WF3235SA32	CC32355	Wi-Fi 5GHz/2.4GH z dual-band	NO -40 ℃ ~ 85℃	23mm x 20.5mm x 2.4mm	RX traffic (MCU active): 59 mA TX traffic (MCU active): 223 mA	800m+	PCB antenn a	WF3235SFA32, WF3235SFAU32, WF3235SFA0, WF3235SFAU0, WF3235SFA2, WF3235SAU32, WF3230SFA32, WF3230SFAU32, WF3230SFA0, WF3230SFAU0, WF3230SFA0, WF3230SFAU0, WF3230SFA0, WF3230SFAU32, WF3135A, WF3230SAU32, WF3135A, WF3135AU are pin-to- pin compatible w/ TI CC3235MODASF, CC3235MODAS
WF32355AU32 WF32355AU32 WF3235 CC 02 JAMU WF3255 CC 02 JAMU WF3255	WF3235SAU3 2	CC32355	Wi-Fi 5GHz/2.4GH z dual-band	NO -40 ℃ ~ 85℃	23mm x 20.5mm x 2.4mm	RX traffic (MCU active): 59 mA TX traffic (MCU active): 223 mA	800m+	UFL connec tor	WF3235SFA32, WF3235SFAU32, WF3235SFA0, WF3235SFAU0, WF3235SA32, WF3235SAU32, WF3230SFA32, WF3230SFAU32, WF3230SFA32, WF3230SFAU3, WF3230SFA0, WF3230SFAU0, WF3230SFA0, WF3230SFAU32, WF3230SFA32, WF3230SAU32, WF3135A, Wf3135AU are pin-to- pin compatible w/ TI CC3235M0DASF, CC3235M0DAS CC3235M0DASF, CC3235M0DAS CC3235M0DASF
CC.0. Zanitov VIDENE CC.0. Zanitov VIDENE CC.0. Zanitov VIDENE CC.0. Boliti Complian	WF3230SFN32	CC3230SF	Wi-Fi 5GHz/2.4GH z dual-band	NO -40 ℃ ~ 85℃	17.5mm x 20.5mm x 2.4mm	RX traffic (MCU active): 59 mA TX traffic (MCU active): 223 mA	800m+	PAD	WF3235SFN32, WF3235SFN0, WF3235SN32, WF3230SFN32, WF3230SFN0, WF3230SN32, WF3135N are pin-to-pin compatible w/ TI CC3135MOD, CC3235MODS, CC3235MODSF



WF32305FN0 WF3250 WF3250	WF3230SFN0	CC3230SF	Wi-Fi 5GHz/2.4GH z dual-band	NO -40 ℃ ~ 85℃	17.5mm x 20.5mm x 2.4mm	RX traffic (MCU active): 59 mA TX traffic (MCU active): 223 mA	800m+	PAD	WF3235SFN32, WF3235SFN0, WF3235SN32, WF3230SFN32, WF3230SFN0, WF3230SN32, WF3135N are pin-to-pin compatible w/ TI CC3135MOD, CC3235MODS, CC3235MODSF
WF32305FA32 BBC FC to: AMAN WH32M FC to: AMAN WH32M FC to: AMAN WH32M	WF3230SFA32	CC32305F	Wi-Fi 5GHz/2.4GH z dual-band	NO -40 ℃ ~ 85℃	23mm x 20.5mm x 2.4mm	RX traffic (MCU active): 59 mA TX traffic (MCU active): 223 mA	800m+	PCB antenn a	WF3235SFA32, WF3235SFAU32, WF3235SFA0, WF3235SFAU0, WF3235SA32, WF3235SAU32, WF3230SFA32, WF3230SFAU32, WF3230SFA0, WF3230SFAU32, WF3230SFA0, WF3230SAU32, WF3135A, WF3135AU are pin-to- pin compatible w/ TI CC3235MODASF, CC3235MODAS
KE 2003 WI 320K	WF3230SFAU3 2	CC3230SF	Wi-Fi 5GHz/2.4GH z dual-band	NO -40 ℃ ~ 85℃	23mm x 20.5mm x 2.4mm	RX traffic (MCU active): 59 mA TX traffic (MCU active): 223 mA	800m+	UFL connec tor	WF3235SFA32, WF3235SFAU32, WF3235SFA0, WF3235SFAU3, WF3235SA32, WF3235SAU32, WF3230SFA32, WF3230SFAU32, WF3230SFA0, WF3230SFAU0, WF3230SA32, WF3230SAU32, WF3135A, Wf3135AU are pin-to- pin compatible w/ TI CC3235M0DASF, CC3235M0DAS
WF3230SFAO BDC- KC: D: AMAN WF32BK E: 2003 WF32BK	WF3230SFA0	CC3230SF	Wi-Fi 5GHz/2.4GH z dual-band	NO -40 ℃ ~ 85℃	23mm x 20.5mm x 2.4mm	RX traffic (MCU active): 59 mA TX traffic (MCU active): 223 mA	800m+	PCB antenn a	WF3235SFA32, WF3235SFAU32, WF3235SFA0, WF3235SFAU0, WF3235SA32, WF3235SAU32, WF3230SFA32, WF3230SFAU32, WF3230SFA0, WF3230SFAU3, WF3230SFA0, WF3230SFAU3, WF3230SFA0, WF3230SFAU3, WF3230SFA0, WF3230SAU32, WF3135A, WF3135AU are pin-to- pin compatible w/ TI CC3235MODASF, CC3235MODAS
VIF3230SFAU0 BDE KC 02.3680-WH320K KC 2050-WH320K	WF3230SFAU0	CC3230SF	Wi-Fi 5GHz/2.4GH z dual-band	NO -40 ℃ ~ 85℃	23mm x 20.5mm x 2.4mm	RX traffic (MCU active): 59 mA TX traffic (MCU active): 223 mA	800m+	UFL connec tor	WF3235SFA32, WF3235SFAU32, WF3235SFA0, WF3235SFAU0, WF3235SFA2, WF3235SAU32, WF3230SFA32, WF3230SFAU32, WF3230SFA0, WF3230SFAU0, WF3230SFA0, WF3230SFAU0, WF3230SFA0, WF3230SFAU0, WF3230SFA0, WF3230SFAU32, WF3230SFA0, WF3230SFAU32, WF3230SA32, WF3230SAU32, WF3135A, Wf3135AU are pin-to- pin compatible w/ TI CC3235MODASF, CC3235MODAS
WF32205N32	WF32205N32	CC3220S	Wi-Fi 5GHz/2.4GH z dual-band	NO -40 ℃ ~ 85℃	17.5mm x 20.5mm x 2.4mm	RX traffic (MCU active): 59 mA TX traffic (MCU active): 223 mA	800m+	PAD	WF3235SFN32, WF3235SFN0, WF3235SN32, WF3230SFN32, WF3230SFN0, WF3230SN32, WF3135N are pin-to-pin compatible w/ TI CC3135MOD, CC3235MODS, CC3235MODSF
WF32205A32 DECE JAMIN WIJZER C. DOOL WIJZER	WF3220SA32	CC3220S	Wi-Fi 5GHz/2.4GH z dual-band	NO -40 ℃ ~ 85℃	23mm x 20.5mm x 2.4mm	RX traffic (MCU active): 59 mA TX traffic (MCU active): 223 mA	800m+	PCB antenn a	WF3235SFA32, WF3235SFAU32, WF3235SFA0, WF3235SFAU0, WF3235SA32, WF3235SFAU32, WF3230SFA32, WF3230SFAU32, WF3230SFA0, WF3230SFAU32, WF3230SFA0, WF3230SFAU32, WF3230SA32, WF3230SAU32, WF3135A, Wf3135AU are pin-to-pin compatible w/ CC3235MODASF, CC3235MODAS



VF32205AU32 VF32205AU32 VF2205AU320 CCC DABIN W1320K CCC DABIN W1320K	WF3220SAU3 2	CC32205	Wi-Fi 5GHz/2.4GH z dual-band	NO -40 ℃ ~ 85℃	23mm x 20.5mm x 2.4mm	RX traffic (MCU active): 59 mA TX traffic (MCU active): 223 mA	800m+	UFL connec tor	WF3235SFA32, WF3235SFAU32, WF3235SFA0, WF3235SFAU3, WF3235SA32, WF3235SAU32, WF3230SFA32, WF3230SFAU32, WF3230SFA0, WF3230SFAU0, WF3230SA32, WF3230SAU32, WF3135A, Wf3135AU are pin-to- pin compatible w/ TI CC3235MODASF, CC3235MODAS
WF3135N DEFENSION CC D JARU-WF315K CC D JARU-	WF3135N	CC3135	Wi-Fi 5GHz/2.4GH z dual-band	NO -40 ℃ ~ 85℃	17.5mm x 20.5mm x 2.4mm	RX traffic (MCU active): 59 mA TX traffic (MCU active): 223 mA	800m+	PAD	WF3235SFN32, WF3235SFN0, WF3235SN32, WF3230SFN32, WF3230SFN0, WF3230SN32, WF3135N are pin-to-pin compatible w/ TI CC3135MOD, CC3235MODS, CC3235MODSF
VF3135A BBC FCCD AMBU WYTHX FC 20457 WYTHX	WF3135A	CC3135	Wi-Fi 5GHz/2.4GH z dual-band	NO -40 ℃ ~ 85℃	23mm x 20.5mm x 2.4mm	RX traffic (MCU active): 59 mA TX traffic (MCU active): 223 mA	800m+	PCB antenn a	WF3235SFA32, WF3235SFAU32, WF3235SFA0, WF3235SFAU0, WF3235SA32, WF3235SAU32, WF3230SFA32, WF3230SFAU32, WF3230SFA0, WF3230SFAU0, WF3230SA32, WF3230SAU32, WF3135A, Wf3135AU are pin-to- pin compatible w/ TI CC3235M0DASF, CC3235M0DAS
WF3135AU DEC FICED NAMEN HEADSK E: 25607 WEBTION	WF3135AU	CC3135	Wi-Fi 5GHz/2.4GH z dual-band	NO -40 ℃ ~ 85℃	23mm x 20.5mm x 2.4mm	RX traffic (MCU active): 59 mA TX traffic (MCU active): 223 mA	800m+	UFL connec tor	WF3235SFA32, WF3235SFAU32, WF3235SFA0, WF3235SFAU0, WF3235SA32, WF3235SAU32, WF3230SFA32, WF3230SFAU32, WF3230SFA0, WF3230SFAU0, WF3230SA32, WF3230SAU32, WF3135A, Wf3135AU are pin-to- pin compatible w/ TI CC3235MODASF, CC3235MODAS
				Bluet	ooth Du	ual Mode			
CE RoHS	BDE- BDM209A	MSP432+ CC2564C	Bluetooth 5.2 BR/EDR & BLE Dual Mode	NO -40 ℃ ~ 85℃	12mm x 22mm x 2.15mm	MCU W/ BT Shutdown -Active: 80 μA/MHz -Low-frequency active: 83 μA at 128 kHz -LPM4.5: 25 Na 41.2mA@EDRfullthrpt 114uA@BLE Adv 169uA@BLEConnectd	200m+	Chip antenn a/ UFL connec tor	
BD2564CA We book	BD2564CA	CC2564C	Bluetooth 5.2 BR/EDR & BLE Dual Mode	NO -40 ℃ ~ 85℃	7mm x 14mm x 1.55 mm	MCU W/ BT Shutdown -Active: 80 μA/MHz -Low-frequency active: 83 μA at 128 kHz -LPM4.5: 25 Na 41.2mA@EDRfullthrpt 114uA@BLE Adv 169uA@BLEConnectd	200m+	Chip antenn a/ UFL connec tor	pin-to-pin compatible w/ TI CC2564MODA
BD2564CN BC TO CTC TO AND ADDRESS CONTRACTOR CONTRACTON	BD2564CN	CC2564C	Bluetooth 5.2 BR/EDR & BLE Dual Mode	NO -40 ℃ ~ 85℃	7mm x 7mm x 1.55 mm	MCU W/ BT Shutdown -Active: 80 μA/MHz -Low-frequency active: 83 μA at 128 kHz -LPM4.5: 25 Na 41.2mA@EDRfullthrpt 114uA@BLE Adv 169uA@BLEConnectd	200m+	PAD	pin-to-pin compatible w/ TI CC2564MODN



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SE-HADDP-SI BOE TANK TO THE ANALYSIS TO THE ANALYSIS TO THE ANALYSIS TO THE ANALYSIS TO THE ANALYSIS	BDE- RFM208P-S1	CC1352P1 F3RGZ	2.4G/Sub-1G BLE 5.2/ Zigbee/ Thread/ IEEE802.15. 4/ 6LoWPAN/ Wi-SUN, etc.	NO -40 ℃ ~85℃	29.86mm x 19.98mm x 2.15mm	0.84uA @ Standby 5.8mA @ RX 8.0mA @ TX @ 0dBm 63mA @ TX @ 20dBm (3.3V, 868MHz) 85mA @ TX @ 20dBm (3.0V, 2.4G)	2000m+	2.4G: PCB antenn a or UFL; Sub1G: UFL	PA on Sub1G 20dBm Sub1G Tx 5dBM 2.4G Tx; BDE-RFM208P, BDE-RFM208-IN, BDE-RFM208, BDE-RFM207P, are pin-to-pin compatible
BL-HEODE-24 A BE- BE- The analysis of the analysis of the analysis of the analysis	BDE- RFM208P-2.4	CC1352P1 F3RGZ	2.4G/Sub-1G BLE 5.2/ Zigbee/ Thread/ IEEE802.15. 4/ 6LoWPAN/ Wi-SUN, etc.	NO -40 ℃ ~ 85℃	29.86mm x 19.98mm x 2.15mm	0.84uA @ Standby 5.8mA @ RX 8.0mA @ TX @ 0dBm 63mA @ TX @ 20dBm (3.3V, 868MHz) 85mA @ TX @ 20dBm (3.0V, 2.4G)	2000m+	2.4G: PCB antenn a or UFL; Sub1G: UFL	PA on 2.4G 19.5dBm 2.4G Tx 12dBm Sub1G Tx; BDE-RFM208P, BDE-RFM208-IN, BDE-RFM208, BDE-RFM207P, are pin-to-pin compatible
25: 67020:- (h) (R) 25:27 27: 10:200-200 27:00:200-200 27:00:200-200 27:00:200-200 27:00:200-200 27:00:200-200 27:00:200 27:0000000000	BDE-RFM208- IN	CC1352R1 F3RGZ	2.4G/Sub-1G BLE 5.2/ Zigbee/ Thread/ IEEE802.15. 4/ 6LoWPAN/ Wi-SUN, etc.	YES -40 ℃ ~ 105℃, Long life, Low error rate	29.86mm x 19.98mm x 2.15mm	0.84uA @ Standby 5.8mA @ RX 8.0mA @ TX @ 0dBm 24.9mA @ TX @ 14dBm	1000m+	PCB antenn a/ UFL connec tor	BDE-RFM208P, BDE-RFM208-IN, BDE-RFM208, BDE-RFM207P, are pin-to-pin compatible
	BDE-RFM208	CC1352R1 F3RGZ	2.4G/Sub-1G BLE 5.2/ Zigbee/ Thread/ IEEE802.15. 4/ 6LoWPAN/ Wi-SUN, etc.	NO -40 ℃ ~ 85℃	29.86mm x 19.98mm x 2.15mm	0.84uA @ Standby 5.8mA @ RX 8.0mA @ TX @ 0dBm 24.9mA @ TX @ 14dBm	1000m+	PCB antenn a/ UFL connec tor	BDE-RFM208P, BDE-RFM208-IN, BDE-RFM208, BDE-RFM207P, are pin-to-pin compatible
	1	1		Protoc	ol (BLE/2	Zigbee/Thread)		I
	BDE-RFM207P	CC2652P1 FRGZR	BLE 5.2/ Zigbee/ Thread/ IEEE802.15. 4/ 6LoWPAN/ Wi-SUN, etc.	NO -40 ℃ ~ 85℃	29.86mm x 19.98mm x 2.15mm	0.94uA @ Standby 6.9mA @ RX 7.3mA @ TX @ 0dBm 9.6mA @ TX @ 5dBm 22mA @ TX @ 10dBm 85mA @ TX @ 20dBm	200m+	PCB antenn a	PA version 20dBm Tx power BDE-RFM208P, BDE-RFM208-IN, BDE-RFM208, BDE-RFM207P, are pin-to-pin compatible
BDE-B7K001-18 COLUMN REPORT COLUMN REPORT COLUMN REPORT	BDE-RFM207- IN	CC2652R1 FRGZ	BLE 5.2/ Zigbee/ Thread/ IEEE802.15. 4/ 6LoWPAN/ Wi-SUN, etc.	YES -40 ℃ ~ 105℃, Long life, Low error rate	22.95mm x 15mm x 2.2mm	0.94uA @ Standby 6.9mA @ RX 7.3mA @ TX @ 0dBm 9.6mA @ TX @ 5dBm	200m	PCB antenn a	BDE-RFM207-IN, BDE-RFM207, BDE-RFM207B, BDE-BLEM205- IN, BDE-BLEM205, BDE- BLEM205-Q1 are pin-to-pin compatible



BDE-REMADY BSC The second second the second second second the second second second the second second second the second second second second the second second second second the second second second second second the second second second second second the second second second second second second the second second second second second second second second the second	BDE-RFM207	CC2652R1 FRGZ	BLE 5.2/ Zigbee/ Thread/ IEEE802.15. 4/ 6LoWPAN/ Wi-SUN, etc.	NO -40 ℃ ~ 85℃	22.95mm x 15mm x 2.2mm	0.94uA @ Standby 6.9mA @ RX 7.3mA @ TX @ 0dBm 9.6mA @ TX @ 5dBm	200m	PCB antenn a	BDE-RFM207-IN, BDE-RFM207, BDE-RFM207B, BDE-BLEM205- IN, BDE-BLEM205, BDE- BLEM205-Q1 are pin-to-pin compatible
DDE-REMADYB BDE ref in Samewaren i bare samewaren i bare samewaren	BDE-RFM207B	CC2652R B1FRGZR	BLE 5.2/ Zigbee/ Thread/ IEEE802.15. 4/ 6LoWPAN/ Wi-SUN, etc.	NO -40 ℃ ~ 85℃	22.95mm x 15mm x 2.2mm	0.94uA @ Standby 6.9mA @ RX 7.3mA @ TX @ 0dBm 9.6mA @ TX @ 5dBm	200m	PCB antenn a	BDE-RFM207-IN, BDE-RFM207, BDE-RFM207B, BDE-BLEM205- IN, BDE-BLEM205, BDE- BLEM205-Q1 are pin-to-pin compatible
	MP2652RSIPA	CC2652R	BLE 5.2/ Zigbee/ Thread/ IEEE802.15. 4/ 6LoWPAN/ Wi-SUN, etc.	NO -40 ℃ ~ 85℃	15 mm x 12.9 mm x 2.2 mm	0.94uA @ Standby 6.9mA @ RX 7.3mA @ TX @ 0dBm 9.6mA @ TX @ 5dBm	200m	Chip antenn a	
				Bluet	ooth Lo	w Energy			
	LE2640R2FA0	CC2640R2 F	BLE 5.1	NO -40 ℃ ~ 85℃	16.9mm x 11mm x 2.1mm (With Shielding)	Shutdown: 100nA (Wake up on external events) Standby: 1.5uA (RTC running and RAM/CPU retention)	100m	Chip antenn a	LE2640R2FA0, LE2640R2FA4, LE2640R2FA8, LE2640R2FAU0, LE2640R2FAU4, LE2640R2FAU8, LE2640R2LA0, LE2640R2LA4, LE2640R2LA8, LE2640R2LAU0, LE2640R2LA4, LE2640R2LAU0, LE2640R2LA4, LE2640R2LAU0, LE2640R2LAU4, LE2640R2LAU0, LE2640R2LAU4, LE2640R2LAU8, are pin-to-pin compatible A
LE2640R2FA4	LE2640R2FA4	CC2640R2 F	BLE 5.1	NO -40 ℃ ~ 85℃	16.9mm x 11mm x 2.1mm (With Shielding)	Shutdown: 100nA (Wake up on external events) Standby: 1.5uA (RTC running and RAM/CPU retention)	100m	Chip antenn a	LE2640R2FA0, LE2640R2FA4, LE2640R2FA8, LE2640R2FAU0, LE2640R2FAU4, LE2640R2FAU8, LE2640R2LA0, LE2640R2LA4, LE2640R2LA8, LE2640R2LAU0, LE2640R2LA4, LE2640R2LAU0, LE2640R2LA4, LE2640R2LAU0, LE2640R2LA4, LE2640R2LAU0, LE2640R2LAU4, LE2640R2LAU8, are pin-to-pin compatible LE2640R2LAU8
LE2640R2FA8	LE2640R2FA8	CC2640R2 F	BLE 5.1	NO -40 ℃ ~ 85℃	16.9mm x 11mm x 2.1mm (With Shielding)	Shutdown: 100nA (Wake up on external events) Standby: 1.5uA (RTC running and RAM/CPU retention)	100m	Chip antenn a	LE2640R2FA0, LE2640R2FA4, LE2640R2FA8, LE2640R2FAU0, LE2640R2FAU4, LE2640R2FAU8, LE2640R2LA0, LE2640R2LA4, LE2640R2LA8, LE2640R2LAU0, LE2640R2LAU4, LE2640R2LAU8 are pin-to-pin compatible
LE2640R2FAU0 LE2640R2FAU0 DEC Rest Compliant	LE2640R2FAU O	CC2640R2 F	BLE 5.1	NO -40 ℃ ~ 85℃	16.9mm x 11mm x 2.1mm (With Shielding)	Shutdown: 100nA (Wake up on external events) Standby: 1.5uA (RTC running and RAM/CPU retention)	100m	UFL connec tor	LE2640R2FA0, LE2640R2FA4, LE2640R2FA8, LE2640R2FAU0, LE2640R2FAU4, LE2640R2FAU8, LE2640R2LA0, LE2640R2LA4, LE2640R2LA8, LE2640R2LAU0, LE2640R2LAU4, LE2640R2LAU8 are pin-to-pin compatible



CE Reis Compliant	LE2640R2FAU 4	CC2640R2 F	BLE 5.1	NO -40 ℃ ~ 85℃	16.9mm x 11mm x 2.1mm (With Shielding)	Shutdown: 100nA (Wake up on external events) Standby: 1.5uA (RTC running and RAM/CPU retention)	100m	UFL connec tor	LE2640R2FA0, LE2640R2FA4, LE2640R2FA8, LE2640R2FAU0, LE2640R2FAU4, LE2640R2FAU8, LE2640R2LA0, LE2640R2LA4, LE2640R2LA8, LE2640R2LAU0, LE2640R2LA0, LE2640R2LAU0, LE2640R2LA0, LE2640R2LAU0, LE2640R2LAU4, LE2640R2LAU0, LE2640R2LAU4, LE2640R2LAU8 are pin-to-pin compatible LE2640R2LAU8
	LE2640R2FAU 8	CC2640R2 F	BLE 5.1	NO -40 ℃ ~ 85℃	16.9mm x 11mm x 2.1mm (With Shielding)	Shutdown: 100nA (Wake up on external events) Standby: 1.5uA (RTC running and RAM/CPU retention)	100m	UFL connec tor	LE2640R2FA0, LE2640R2FA4, LE2640R2FA8, LE2640R2FAU0, LE2640R2FAU4, LE2640R2FAU8, LE2640R2LA0, LE2640R2LA4, LE2640R2LA8, LE2640R2LAU0, LE2640R2LA4, LE2640R2LAU0, LE2640R2LA8, LE2640R2LAU0, LE2640R2LAU4, LE2640R2LAU0, LE2640R2LAU4, LE2640R2LAU8 are pin-to-pin compatible LE2640R2LAU4
LE2640R2FN0 DEC Reperturbation Reper	LE2640R2FN0	CC2640R2 F	BLE 5.1	NO -40 ℃ ~ 85℃	11.6mm x 11mm x 2.1mm (With Shielding)	Shutdown: 100nA (Wake up on external events) Standby: 1.5uA (RTC running and RAM/CPU retention)	100m	PAD	LE2640R2FN0, LE2640R2FN4, LE2640R2FN8, LE2640R2LN0, LE2640R2LN4, LE2640R2LN8 are pin-to-pin compatible
LE2640R2FN4 DEC PCCS ALGORDANCE PCCC Rold USBORDANCE CC Rold Compliant	LE2640R2FN4	CC2640R2 F	BLE 5.1	NO -40 ℃ ~ 85℃	11.6mm x 11mm x 2.1mm (With Shielding)	Shutdown: 100nA (Wake up on external events) Standby: 1.5uA (RTC running and RAM/CPU retention)	100m	PAD	LE2640R2FN0, LE2640R2FN4, LE2640R2FN8, LE2640R2LN0, LE2640R2LN4, LE2640R2LN8 are pin-to-pin compatible
LE2640R2FN8 DEF Constant Useronne Constant Useronne Constant Useronne	LE2640R2FN8	CC2640R2 F	BLE 5.1	NO -40 ℃ ~ 85℃	11.6mm x 11mm x 2.1mm (With Shielding)	Shutdown: 100nA (Wake up on external events) Standby: 1.5uA (RTC running and RAM/CPU retention)	100m	PAD	LE2640R2FN0, LE2640R2FN4, LE2640R2FN8, LE2640R2LN0, LE2640R2LN4, LE2640R2LN8 are pin-to-pin compatible
LE2640R2LAO DEC SANGUERE CESSA	LE2640R2LA0	CC2640R2 L	BLE 5.1	NO -40 ℃ ~85℃	16.9mm x 11mm x 2.1mm (With Shielding)	Shutdown: 100nA (Wake up on external events) Standby: 1.5uA (RTC running and RAM/CPU retention)	100m	Chip antenn a	LE2640R2FA0, LE2640R2FA4, LE2640R2FA8, LE2640R2FAU0, LE2640R2FAU4, LE2640R2FAU8, LE2640R2LA0, LE2640R2LA4, LE2640R2LA8, LE2640R2LAU0, LE2640R2LAU4, LE2640R2LAU8 are pin-to-pin compatible
	LE2640R2LA4	CC2640R2 L	BLE 5.1	NO -40 ℃ ~85℃	16.9mm x 11mm x 2.1mm (With Shielding)	Shutdown: 100nA (Wake up on external events) Standby: 1.5uA (RTC running and RAM/CPU retention)	100m	Chip antenn a	LE2640R2FA0, LE2640R2FA4, LE2640R2FA8, LE2640R2FAU0, LE2640R2FAU4, LE2640R2FAU8, LE2640R2LA0, LE2640R2LA4, LE2640R2LA8, LE2640R2LAU0, LE2640R2LAU4, LE2640R2LAU8 are pin-to-pin compatible
LE2640R2LA8	LE2640R2LA8	CC2640R2 L	BLE 5.1	NO -40 ℃ ~ 85℃	16.9mm x 11mm x 2.1mm (With Shielding)	Shutdown: 100nA (Wake up on external events) Standby: 1.5uA (RTC running and RAM/CPU retention)	100m	Chip antenn a	LE2640R2FA0, LE2640R2FA4, LE2640R2FA8, LE2640R2FAU0, LE2640R2FAU4, LE2640R2FAU8, LE2640R2LA0, LE2640R2LA4, LE2640R2LA8, LE2640R2LAU0, LE2640R2LA8, LE2640R2LAU0, LE2640R2LA4, LE2640R2LAU0, LE2640R2LA4, LE2640R2LAU0, LE2640R2LAU4, LE2640R2LAU8, are pin-to-pin compatible LE2640R2LAU8,



	LE2640R2LN0	CC2640R2 L CC2640R2 L	BLE 5.1 BLE 5.1	NO -40 ℃ ~ 85℃ NO -40 ℃ ~ 85℃	11.6mm x 11mm x 2.1mm (With Shielding) 11.6mm x 11mm x 2.1mm (With Shielding)	Shutdown: 100nA (Wake up on external events) Standby: 1.5uA (RTC running and RAM/CPU retention) Shutdown: 100nA (Wake up on external events) Standby: 1.5uA (RTC running and RAM/CPU retention)	100m 100m	PAD	LE2640R2FN0, LE2640R2FN4, LE2640R2FN8, LE2640R2LN0, LE2640R2LN4, LE2640R2LN8 are pin-to-pin compatible LE2640R2FN0, LE2640R2FN4, LE2640R2FN8, LE2640R2LN0, LE2640R2LN4, LE2640R2LN8 are pin-to-pin compatible
LE2640R2LN8	LE2640R2LN8	CC2640R2 L	BLE 5.1	NO -40 ℃ ~ 85℃	11.6mm x 11mm x 2.1mm (With Shielding)	Shutdown: 100nA (Wake up on external events) Standby: 1.5uA (RTC running and RAM/CPU retention)	100m	PAD	LE2640R2FN0, LE2640R2FN4, LE2640R2FN8, LE2640R2LN0, LE2640R2LN4, LE2640R2LN8 are pin-to-pin compatible
	BDE-USB205	CC2642R1 FRGZ	BLE 5.2/ USB2.0	NO -40 ℃ ~ 85℃	60mm x 24mm x 9mm	0.95uA @ Standby 6.9mA @ RX 7.4mA @ TX @ 0dBm 9.7mA @ TX @ 5dBm	150m	PCB antenn a	USB dongle
BRE-BLEMAND- IN BEE THE III SAMENA SEE ELEMENT AND AND ELEMENT AND AND ELEMENT AND AND ELEMENT AND AND ELEMENT AND AND AND ELEMENT AND	BDE- BLEM205-IN	CC2642R1 FRGZ	BLE 5.2	YES -40 ℃ ~ 105℃, Long life, Low error rate	22.95mm x 15mm x 2.2mm	0.95uA @ Standby 6.9mA @ RX 7.4mA @ TX @ 0dBm 9.7mA @ TX @ 5dBm	200m	PCB antenn a	BDE-RFM207-IN, BDE-RFM207, BDE-RFM207B, BDE-BLEM205- IN, BDE-BLEM205, BDE- BLEM205-Q1 are pin-to-pin compatible
BDE-BLEAROS EE E Commerces Commerces Commerces Commerces Commerces Commerces Commerces	BDE-BLEM205	CC2642R1 FRGZ	BLE 5.2	NO -40 ℃ ~ 85℃	22.95mm x 15mm x 2.2mm	0.95uA @ Standby 6.9mA @ RX 7.4mA @ TX @ 0dBm 9.7mA @ TX @ 5dBm	200m	PCB antenn a	BDE-RFM207-IN, BDE-RFM207, BDE-RFM207B, BDE-BLEM205- IN, BDE-BLEM205, BDE- BLEM205-Q1 are pin-to-pin compatible
BDC-BL DK05-CR BDC- The DC- The Constant PC- BDC- BDC- The DC- BDC- The DC- DC- DC- DC- DC- DC- DC- DC- DC- DC-	BDE- BLEM205-Q1	CC2642R- Q1	BLE 5.1	NO -40 ℃ ~ 105℃	22.95mm × 15mm × 1.5mm	Shutdown: 150nA (Wake up on external events) Standby: 0.94uA (RTC running and RAM/CPU retention) RX current: 6.9mA TX current: @ 0dBm: 7.3mA TX current @ 5dBm: 9.6mA	200m	PCB antenn a	BDE-RFM207-IN, BDE-RFM207, BDE-RFM207B, BDE-BLEM205- IN, BDE-BLEM205, BDE- BLEM205-Q1 are pin-to-pin compatible
REAL PARTY REAL	BDE- BLEM203D	CC2640R2 FRSM	BLE 5.1	NO -40 ℃ ~ 85℃	20.5mm x 13mm x 2.1mm	1.1uA @ Standby 5.9mA @ RX 6.1mA @ TX @ 0dBm 9.1mA @ TX @ 5dBm	250m	PCB antenn a	



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RIF	BDE- BLEM203P	CC2640R2 FRSM	BLE 5.0	NO -40 ℃ ~ 85℃	16.55mm x 10.88 mm x 2.3mm (With Shielding)	Shutdown: 100nA 1.1uA @ Standby 5.9mA @ RX 6.1mA @ TX @ 0dBm 9.1mA @ TX @ 5dBm	250m	PCB antenn a	BDE-BLEM201P, BDE-BLEM401P BDE-BLEM203P, BDE-BLEM501P are pin2pin compatible
ROE-BLEM201P BEF FG: In a Manufactory If and Manufactory	BDE- BLEM201P	CC2541F2 56RHA	BLE 5.0	NO -40 ℃ ~ 85℃	16.55mm x 10.88mm x 2.2mm	1uA @ Standby 17.9mA @ RX 18.2mA @ TX @ 0dBm	50m	PCB antenn a	BDE-BLEM201P, BDE-BLEM401F BDE-BLEM203P, BDE-BLEM501F are pin2pin compatible
	BDE-BLEM201	CC2541	BLE 4.0	NO -40 ℃ ~ 85℃	16.55mm x 10.88mm x 1.5mm	23 GPIOs (21x4mA, 2x20mA)	100m	PCB antenn a	
	BDE-BLEM202	CC2540	BLE 4.0	NO -40 ℃ ~ 85℃	25mm x 15mm x 2.2mm	Ultra low power consumption: 0.5uA@DeepSleepMo de	100m	PCB antenn a	
	BDE-USB201	CC2540F2 56RHA	BLE 5.0/ USB2.0	NO -40 ℃ ~ 85℃	22.6mm x 18.5mm x 7.7mm	1uA @ Standby 19.6mA @ RX 24mA @ TX @ -6dBm	10m	PCB antenn a	USB dongle
	BDE-BLEM211	CC2541F2 56RHA	BLE 5.0	NO -40 ℃ ~ 85℃	11.61mm x 10.97m x 2.2mm	1uA @ Standby 17.9mA @ RX 18.2mA @ TX @ 0dBm	50m	Half- hole	
00	BDE-BC001	CC2541F2 56RHA	BLE 4.0	NO -40 ℃ ~ 85℃	42.2mm x 28.3mm x 11mm	1s/35uA/210days 3s/13uA/564days 1s/65uA/113days 3s/20uA/367days	50m	PCB antenn a	
00	BDE-BC002	CC2640R2 FRSM	BLE 5.0	NO -40 ℃ ~ 85℃	42.2mm x 28.3mm x 11mm	1s/22uA/333days 2s/12uA/611days 3s/9uA/814days 5s/5uA/1466days	200m	PCB antenn a	
					Sub1G	Hz			
	BDE-USB216	CC1312R1 F3RGZ	Sub-1G/ USB2.0	NO -40 ℃ ~ 85℃	80mm x 32mm x 12mm	0.55uA @ Standby 5.8mA @ RX 24.9mA @ TX @ 14dBm	1000m+	FPC antenn a	USB dongle
BE-REFE-II	BDE-RFM216- IN	CC1312R1 F3RGZ	Sub-1G	YES -40 ℃ ~ 105℃, Long life, Low error rate	22mm x 15mm x 2.15mm	0.55uA @ Standby 5.8mA @ RX 24.9mA @ TX @ 14dBm	1000m+	UFL connec tor	BDE-RFM216-IN, BDE-RFM216 BDE-RFM214A are pin-to-pir compatible
BDE-RFW216	BDE-RFM216	CC1312R1 F3RGZ	Sub-1G	NO -40 ℃ ~ 85℃	22mm x 15mm x 2.15mm	0.55uA @ Standby 5.8mA @ RX 24.9mA @ TX @ 14dBm	1000m+	UFL connec tor	BDE-RFM216-IN, BDE-RFM216 BDE-RFM214A are pin-to-pir compatible



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BDE-RFW206	BDE-RFM206	CC1312R1 F3RGZ	Sub-1G	NO -40 ℃ ~ 85℃	25mm x 15mm x 2.15mm	0.7uA @ Standby 5.4mA @ RX 13.4mA @ TX @ 10dBm	1000m+	PCB antenn a	BDE-RFM206, BDE-RFM204A ard pin-to-pin compatible
88-10 1236-1N BDE	BDE-RFM206- IN	CC1312R1 F3RGZ	Sub-1G	YES -40 ℃ ~ 85℃	25mm x 15mm x 2.15mm	0.7uA @ Standby 5.4mA @ RX 13.4mA @ TX @ 10dBm	1000m+	PCB antenn a	BDE-RFM206, BDE-RFM204A ar pin-to-pin compatible
BDE-RF14204 BDE- Pro # second control References Hitteratures	BDE-RFM204	CC1310F1 28RSM	Sub-1G	NO -40 ℃ ~ 85℃	20.5mm x 13mm x 2.1mm	0.7uA @ Standby 3mA @ RX 10mA @ TX @ 10dBm	1000m+	PCB antenn a	
ब्रह्म 2002 में में 201	BDE-RFM214	CC1310F1 28RSM	Sub-1G	NO -40 ℃ ~ 85℃	13mm x 13mm x 2.1mm	0.7uA @ Standby 5.4mA @ RX 13.4mA @ TX @ 10dBm	1000m+	Half- hole	
BDE-RFM2QAA BDE	BDE-RFM204A	CC1310F1 28RGZ	Sub-1G	NO -40 ℃ ~ 85℃	25mm x 15mm x 2.15mm	0.7uA @ Standby 5.4mA @ RX 13.4mA @ TX @ 10dBm	1000m+	PCB antenn a/ UFL connec tor	BDE-RFM206, BDE-RFM204A ar pin-to-pin compatible
BDE-RF#214A BDE	BDE-RFM214A	CC1310F1 28RGZ	Sub-1G	NO -40 ℃ ~ 85℃	22mm x 15mm x 2.15mm	0.7uA @ Standby 5.4mA @ RX 13.4mA @ TX @ 10dBm	1000m+	Half- hole/ UFL connec tor	BDE-RFM216-IN, BDE-RFM211 BDE-RFM214A are pin-to-pi compatible
		W	/ireless B	attery	Manage	ement System	(BMS)		<u>'</u>
BISSER-UT DEC (C. UN BESICO C. C. BAR BESICO C. BAR BE	BMS2662R-Q1	CC2662R- Q1	Wireless BMS	NO - 40 °C to +105 ° C	22.95mm x 15mm x 2.1 mm	0.94uA @ Standby 6.9mA @ RX 7.3mA @ TX @ 0dBm 9.6mA @ TX @ 5dBm	250m	Half- hole	



	Other BLE Modules											
192-01 (9800) 192-01 (9800) 19 (1990) 19 (1990)	BDE-BLEM301	DA14531	BLE 5.1	NO -40°C ~ 85°C	12.5mm x 14.5mm x 2.1mm	1.8uA @ sleep 2mA @ RX 4mA @ TX @ 0dBm	50m+	PCB antenn a	Compatible to Dialog SmartBond TINY [™] Module DA14531MOD			
BDE-BLEMADIP 2BDE? Prot in secondary Prot in secondary	BDE- BLEM401P	ВК3432	BLE 4.2	NO -40°C ~ 85°C	16.55mm x 10.88mm x 2.2mm	8uA @ Standby 5.4mA @ RX 4.8mA @ TX @ -1dBm	50m	PCB antenn a	BDE-BLEM201P, BDE-BLEM401P, BDE-BLEM203P, BDE-BLEM501P, are pin-to-pin compatible			
CLEGS21DB Series Contracting C	LE6621DB	OM6621D B	BLE 5.0	NO -40 ℃ ~ 85℃	11.5mm x 11mm x 2mm package	14.1 mA RX at VBAT = 3.3V 12.8 mA TX at VBAT = 3.3V and 0 dBm 2.5 uA at deep sleep mode with all RAM retained	100M	PCB antenn a				





BDE Technology, Inc. is an innovation driven company dedicated to green wireless IoT technologies. BDE is committed to providing ultra low power wireless communication technologies, particularly Bluetooth Low Energy (BLE), Bluetooth Dual-mode, Sub-1GHz, Zigbee, Thread, WiFi and NB-IoT modules and solutions to OEMs, system integrators, device manufacturers and solution providers worldwide.

BDE is a Bluetooth SIG recommended service provider for Prequalified Components, OEM & ODM Products & Reference Designs and Software Application Development. BDE is a Dialog Semiconductor authorized module partner and a TI(Texas Instruments) certified third party module provider.

Equipped with BDE's innovative products and outstanding services which include BLE protocol stacks, wireless modules, applications, system solutions and world class expertise, customers are able to shorten development cycles, reduce design uncertainty, lower production cost and release more competitive products into markets quickly and efficiently. BDE's flexible, highly integrated products and solutions are able to be customized to the most demanding requirements in numerous IoT devices and applications such as industrial automation, medical and health care, sports and fitness, smart watches, human interface devices, automotive, smart energy, smart building, home automation etc.

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