

BMD Module Guide

	BMD-300-A BMD-301-A	BMD-200-A BMD-200-B	BMD-100
Description	Bluetooth Smart 4.2 Module, ANT	Bluetooth 4.1 Module	Bluetooth 4.1 Module
Chipset	Nordic nRF52832	Nordic nRF51822	STMicroelectronics BlueNRG-MS
Type	MCU + BLE (On Module)	MCU + BLE (On Module)	Network Processor Module
CPU Core	ARM Cortex™-M4F up to 64MHz	ARM Cortex™-M0 up to 16MHz	-
Antenna	Integrated: BMD-300-A External (U.FL): BMD-301-A	Integrated	Integrated
Supply	1.7V - 3.6V	1.8V - 3.6V	1.7V - 3.6V
Tx Power	+4 dBm @ 7.7mA*	+4 dBm @ 16mA	+8 dBm @ 16mA
Rx Sensitivity	-96 dBm @ 5.5mA*	-93 dBm @ 13mA	-88 dBm @ 7.3mA
Flash	512kB	256kB	-
RAM	64kB	16kB: BMD-200-A 32kB: BMD-200-B	-
Interfaces	UART / I2C / SPI / GPIO(32) / ADC / I2S / PDM / NFC / PWM	UART / I2C / SPI / GPIO(15) / ADC	SPI + Interrupt
Preloaded BMDware	Yes	Yes	No
RigDFU Compatible	Yes	Yes	No
Rigablue Compatible	Yes	Yes	Yes
Dimensions	9.8 x 14 x 1.9mm	17 x 17 x 2.9mm	8.4 x 13.6 x 1.8mm
Availability	Samples in Q4 / Production Q1 '16	In Production	In Production

*Note: Preliminary BMD-30x specifications