

Item	MDBT50Q-512K	MDBT50Q-P512K	MDBT50Q-U512K	MDBT50-512K	MDBT50-P512K
Picture					
Solution	 nRF52833				
Size (mm)	10.5 x 15.5 x 2.05	10.5 x 15.5 x 2.0	10.5 x 15.5 x 2.05	8.4 x 13.2 x 2.1	
Antenna	Chip	PCB	u.FL Connector for External Antenna	Chip	PCB
Line-of-sight Distance	125Kbps: Over 550 Meters 1Mbps: Over 300 Meters 2Mbps: Over 130 Meters		125Kbps: Over 750 Meters 1Mbps: Over 300 Meters 2Mbps: Over 180 Meters	125Kbps: Over 550 Meters 1Mbps: Over 300 Meters 2Mbps: Over 130 Meters	
RAM	128K				
Flash Memory	512K				
GPIO	42			18	
Bluetooth Specification	BT5.4 / BT5.2 / BT5.1 / BT5.0				
Other Features	   				
BQB Profiles Applied	1. Alert Notification Profile 2. Blood Pressure Profile 3. Cycling Speed & Cadence Profile 4. Glucose Profile 5. Health Thermometer Profile 6. Heart Rate Profile 7. HID over GATT Profile 8. Proximity Profile 9. Running Speed & Cadence Profile 10. Time Profile 11. Glucose Profile (Central) 12. Mesh Profile				
FCC (USA)	*SH6MDBT50Q	*SH6MDBT50Q	*SH6MDBT50Q (4 External Antennas)	*SH6MDBT50	*SH6MDBT50
IC (Canada)	*8017A-MDBT50Q	*8017A-MDBT50Q	*8017A-MDBT50QU (4 External Antennas)	*8017A-MDBT50	*8017A-MDBT50
CE (EU)	CE RED Directive Compliant (2 External Antennas)				
RCM (Australia & New Zealand)	RCM Compliant (2 External Antennas approved)				
Telec (Japan)	*018-180280	*018-180280	*018-180280 (3 External Antennas)	*201-200840	*201-200840
KC (Korea)	*R-C-ryt-MDBT50Q	*R-C-ryt-MDBT50Q	*R-C-ryt-MDBT50Q (4 External Antennas)	*R-C-ryt-MDBT50	*R-C-ryt-MDBT50
SRRC (China)	*CMIIT ID: 2018DJ5128	*CMIIT ID: 2018DJ5128	CMIIT ID: 2018DJ5134(M)	*2020DJ11240	*2020DJ11240
NCC (Taiwan)	*CCAM18LP0820T7	*CCAM18LP0824T2	*CCAM18LP0825T4 (4 External Antennas)	*CCAM20LP2870T3	*CCAM20LP2871T5
WPC (India)	ETA-1323/2017-RLO(SR)	ETA-1325/2017-RLO(SR)	ETA-1324/2017-RLO(SR)	N/A	N/A
Interface	QSPI & USB & I2C & SPI & UART & I2S & PDM & PWM & NFC				
Package	Anti-Static SMT Tray/88pcs; Tape & Reel/1,500pcs			Anti-Static SMT Tray/120pcs; Tape & Reel/1,500pcs	
Remark	*** Module Approval Compliant				