

MDBT53 Series

MDBT53-V Series

Item	MDBT53-1M	MDBT53-P1M	MDBT53-U1M	MDBT53V-1M	MDBT53V-P1M
Picture					
Solution	 nRF5340				
Size (mm)	9.3 x 14.3 x 1.85	9.3 x 14.3 x 1.6	9.3 x 14.3 x 1.85	7.8 x 12.4 x 1.85	7.8 x 12.4 x 1.6
Antenna	Chip	PCB	u.FL Connector (for External Antenna)	Chip	PCB
Line-of-sight Distance	125Kbps: Over 240 Meters 1Mbps: Over 200 Meters 2Mbps: Over 160 Meters	125Kbps: Over 210 Meters 1Mbps: Over 180 Meters 2Mbps: Over 140 Meters	125Kbps: Over 320 Meters 1Mbps: Over 240 Meters 2Mbps: Over 200 Meters	125Kbps: Over 240 Meters 1Mbps: Over 200 Meters 2Mbps: Over 160 Meters	
RAM Flash Memory	Dual Core 28/64 MHz Arm Cortex-M33 application processor with 1 MB Flash & 512 KB RAM 64 MHz Arm Cortex-M33 network processor with 256 KB Flash & 64 KB RAM				
GPIO	48			25	
Bluetooth Specification	BT5.4 / BT5.2				
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. Running Speed & Cadence Profile 9. Glucose Profile (Central) 10. Mesh Profile				
FCC (USA)	*SH6MDBT53	*SH6MDBT53	*SH6MDBT53 (4 External Antennas)	*SH6MDBT53V	*SH6MDBT53V
IC (Canada)	*8017A-MDBT53	*8017A-MDBT53	*8017A-MDBT53 (4 External Antennas)	*8017A-MDBT50	*8017A-MDBT53V
CE (EU)	CE RED Directive Compliant (2 External Antennas)				
RCM (Australia & New Zealand)	RCM Compliant (2 External Antennas approved)				
Telec (Japan)	*201-210873	*201-210873	*201-210873 (4 External Antennas)	*201-210875	*201-210875
KC (Korea)	*R-C-ryt-MDBT53-U	*R-C-ryt-MDBT53-U	*R-C-ryt-MDBT53-U (4 External Antennas)	*R-C-ryt-MDBT53V	*R-C-ryt-MDBT53V
SRRC (China)	*CMIIT ID: 2022DJ1251	*CMIIT ID: 2022DJ1251	CMIIT ID: 2022DJ0450(M) (4 External Antennas)	*2022DJ1176	*2022DJ1176
NCC (Taiwan)	*CCAM21Y10110T8	*CCAM21Y10111T0	*CCAM21Y10112T2 (4 External Antennas)	*CCAM21Y10100T5	*CCAM21Y10101T7
Interface	QSPI & USB & I2C & SPI & UART & I2S & PDM & PWM & NFC				
Package	Anti-Static SMT Tray/88pcs or Carton/1,760pcs			Anti-Static SMT Tray/120pcs or Carton/2,400pcs	
Remark	"" Module Approval Compliant				