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| --- | --- | --- | --- |
|  | NRF52832 | NRF52840 | NRF52810 |
| Processor | ARM® Cortex®-M4 32-bit processor with FPU, 64 MHz | 32-bit ARM® Cortex®-M4F @ 64 MHz | 32-bit ARM Cortex-M4 Processor |
| RAM | 32/ 64 KB | 256 KB | 24 KB |
| Flash | 256/ 512 KB | 1 MB | 192 KB |
| NFC | YES (For pairing) | YES (For pairing) |  |
| Package | 6x5 mm QFN-48/ 3.0 x3.2 mm WL-CSP | 7x7 mm AQFN-73 |  |
| Operating channel | -40 -85 C | -40 -85 C |  |
| TX power (Max) | 4dBm | 8dBm | +4dBm |
| RX sensitivity | -96 dBm @ 1Mbps for BT 4.2 | -103 dBm @125 Kbps  -99 dBm @ 500 Kbps  -96 dBm @ 1Mbps  -92 dBm @ 2Mbps for BT 5.0 . | -96dBm |
| Support data rate | 1Mbps/ 2Mbps for BLE and 2.4 GHz | 125Kbps / 500Kbps / 1 Mbps / 2 Mbps for BLE  250 Kbps for 802.15.4  1Mbps / 2Mbps for 2.4GHz | 2Mbps/1Mbps |
| TX current | 7.5 m A @4dBm DC-DC  5.3 m A @0dBm DC-DC | 13.6 m A @ 8 dBm DC- DC/ 3V  7.3 m A @ 4 dBm DC-DC / 3V  5.3 m A @ 0 dBm DC-DC/ 3 V |  |
| RX current | 9.7 m A @ 3V DC-DC | 5.4 m A @ 3V DC-DC |  |
| Sleep current | 0.3 µ A @system off | 0.3 µ A @system off |  |
| Serial interface | 2x I2C master/slave  3x SPI master/slave  1x UART CTS/ RTS  1x I2S  1x PDM  1x QDEC | 2x I2C master/slave  4x SPI master/slave  1x QSPI  2x UART CTS/ RTS  1x I2S  1x PDM  1x QDEC | 1 x Master/Slave SPI 1 x Two-wire interface (I²C) UART (RTS/CTS) |
| Supply voltage | 1.7 -3.6 V | 1.7 – 5.5 V | 1.7 -3.6 V |

<https://raytac.blog/2017/04/25/ble-solution-comparison-chart/#more-1291>

<http://www.freqchina.com/plus/view.php?aid=1072>

<http://raytaccorp.blogspot.fi/2017/04/ble-solution-comparison-chart.html?m=1>