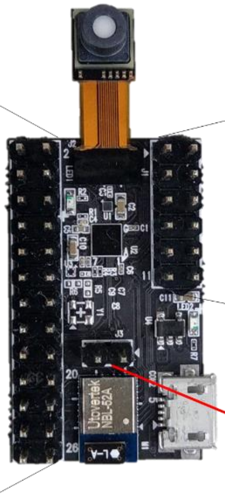
| Pin Name | Pin No. | | Pin Name |
|---|---|---|---|
| GND | 1 | 2 | NA |
| SPI_SCK<br>/UART_RX | 3 | 4 | NA |
| SPI_MISO<br>/BAUD_SELECTION[1] | 5 | 6 | NA |
| SPI_MOSI<br>/BAUD_SELECTION[0] | 7 | 8 | NA |
| SPI_NSS<br>/UART_TX | 9 | 10 | NA |
| Ready trigger | 11 | 12 | NA |
| NA | 13 | 14 | NA |
| nRF_P0_27 | 15 | 16 | nRF_P0_26 |
| nRF_P0_02 | 17 | 18 | nRF_P0_03 |
| nRF_P0_31 | 19 | 20 | nRF_P0_04 |
| nRF_P0_30 | 21 | 22 | nRF_P0_05 |
| nRF_P0_29 | 23 | 24 | nRF_P0_08 |
| nRF_P0_28 | 25 | 26 | nRF_P0_15 |



| | |
|---|---|
| 🟧 | NSP32m I/O pins |
| 🟦 | nRF52 I/O pins |
| 🟨 | nRF52 SWD pins |

| Pin Name | Pin No. | | Pin Name |
|---|---|---|---|
| GND | 1 | 2 | NA |
| Wakeup/Reset | 3 | 4 | NA |
| GND | 5 | 6 | NA |
| GND | 7 | 8 | VDD3V3 |
| GND | 9 | 10 | nRF_SWDIO |
| nRF_NRST | 11 | 12 | nRF_SDWCLK |

| J3 | nRF52832 | Memo |
|---|---|---|
| Connected | Disabled | DBK behaves as NSP32m, please refer to NSP32m datasheet. |
| Disconnected | Enabled | For BLE app and/or customer development |

- Programming nRF52832 is OPEN to everyone.
- API is provided.

## Supported Platforms

DBK supports a wide range of platforms via SPI/UART and BLE interfaces. The table below summaries, but not limited to, the available libraries and examples provided by nanoLambda.

| | | C/C++ | C# | Java | Python | |
|---|---|---|---|---|---|---|
| API Library and Sample Code | | Download | Download | Download | Download | Download |
| API Library | | ✓ (PDF) | ✓ (PDF) | ✓ (PDF) | ✓ (PDF) | ✓ (PDF) |
| MCU | Arduino Example | ✓ (PDF)<br>1)Beginner[1]<br>2)Console Demo[1][3] | | | | |
| | nRF52832 Example | ✓ (PDF)<br>1)BLE Demo[1] [2]<br>(in conjunction with Android GUI example) | | | | |
| Raspberry Pi (Raspbian) Example | | | | | ✓ (PDF)<br>1)Beginner[1][3]<br>2)Console Demo[1][3]<br>3)Spectrum Meter[1][3] | |
| Android Example | | | | ✓ (PDF)<br>1) GUI Demo[2]<br>(in conjunction with nRF52832 BLE example) | | |
| Windows Example | | | ✓ (PDF)<br>1)Beginner[3]<br>2)Console Demo[3]<br>3)Spectrum Meter[3] | ✓ (PDF)<br>1)Beginner[3]<br>2)Console Demo[3]<br>3)Spectrum Meter[3] | | ✓ (PDF)<br>1)Beginner[3]<br>2)Console Demo[3]<br>3)Spectrum Meter[3] |

| | | | | | |
|---|---|---|---|---|---|
| **Ubuntu Example** | | | ✓ (PDF)<br>1)Beginner[3]<br>2)Console Demo[3]<br>3)Spectrum Meter[3] | | ✓ (PDF)<br>1)Beginner[3]<br>2)Console Demo[3]<br>3)Spectrum Meter[3] |
| **macOS Example** | | | ✓ (PDF)<br>1)Beginner[3]<br>2)Console Demo[3]<br>3)Spectrum Meter[3] | | ✓ (PDF)<br>1)Beginner[3]<br>2)Console Demo[3]<br>3)Spectrum Meter[3] |
| ● Unplug J3 to enable the nRF52832 to use the Android App example. In this scenario, users can freely program the I/O pin (as SPI/I2C GPIO)<br>● Plug J3 to disable the nRF52832. In this scenario, the DBK behaves as NSP32m, and it can be operated via the SPI/UART interface. For more details, please refer to the NSP32m datasheet. | | | | | |

[1] Examples of using SPI connection
[2] Examples of using Bluetooth connection via nRF52832
[3] Examples of using UART connection (an additional USB-to-UART adopter might be required)

## IMPORTANT NOTICE

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