



SIP Modules

Standard or customized modules for a variety of applications

M101 Wifi module

Solution : Realtek 8189ES

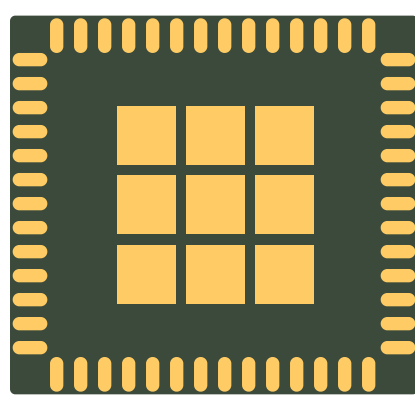
Functionality : 802.11 1x1 b/g/n

Size (mm) : 9.2 x 8.3 x 1.1 mm

Package : LGA-52 pin

Power : 3.3v / 1.2v (Optional)

Interface : SDIO / GSPI

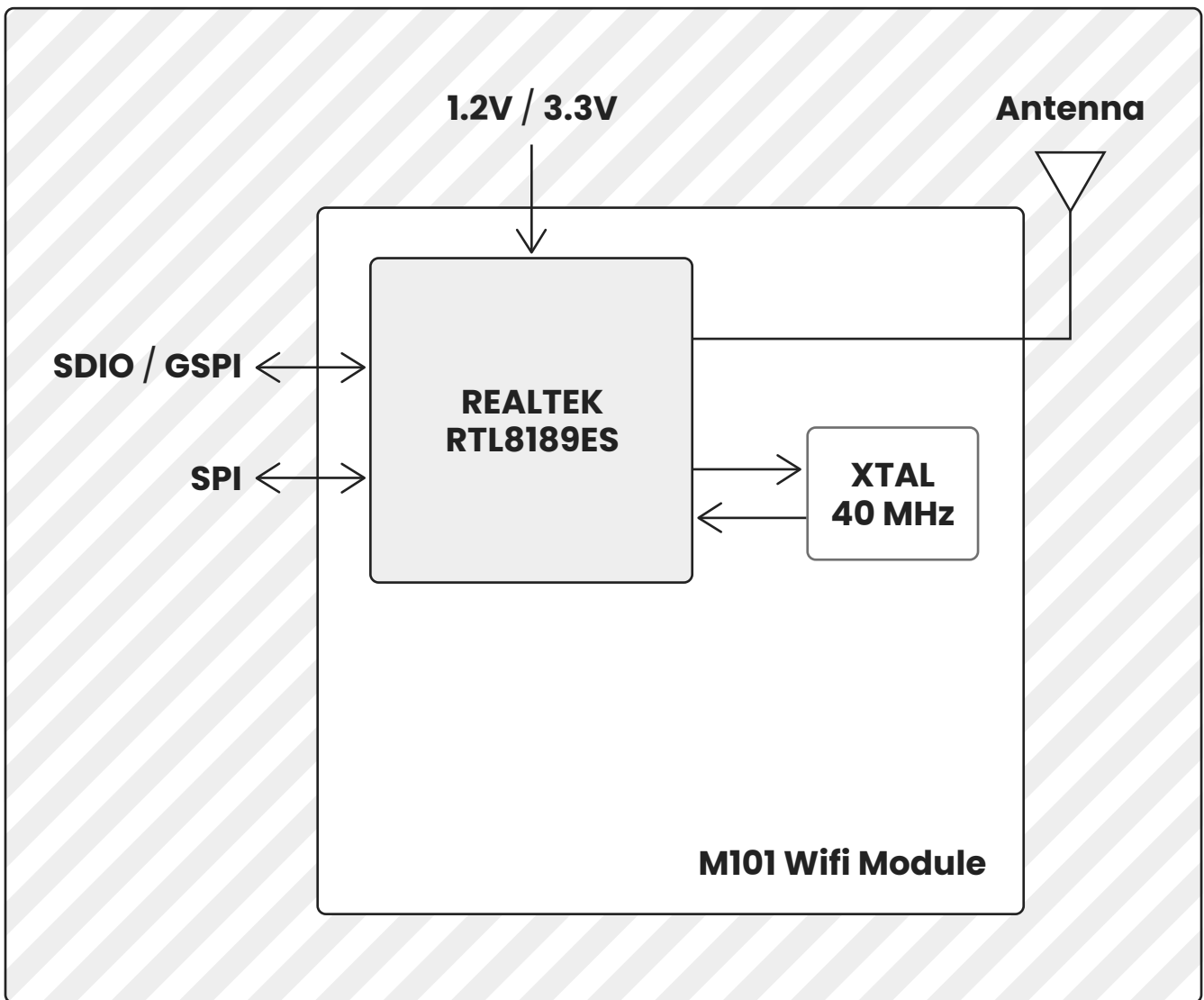


Features :

- Complies with 802.11 b/g/n
- Supported 20/40 MHz bandwidth
- Supported SDIO 1.1/2.0/3.0 up to 100MHz clock rate
- Single 3.3v Power only
- RoHS compliant / Lead Free
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Application :

- Tablet
- e-book
- DSC
- IP Camera
- ...



M201 Wifi + BT Combo module

Solution : Realtek 8723AS

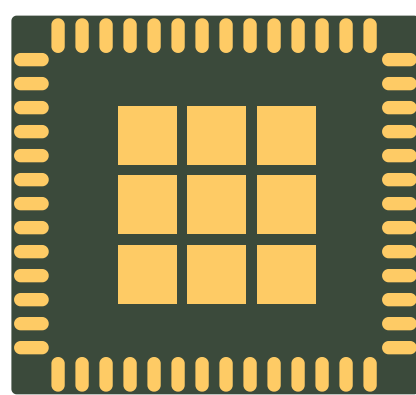
Functionality : 802.11 1x1 b/g/n + BT

Size (mm) : 9.2 x 8.3 x 1.1 mm

Package : LGA-52 pin

Power : 3.3v (1.5v / 1.2v optional)

Interface : SDIO / GSPI / UART / PCM

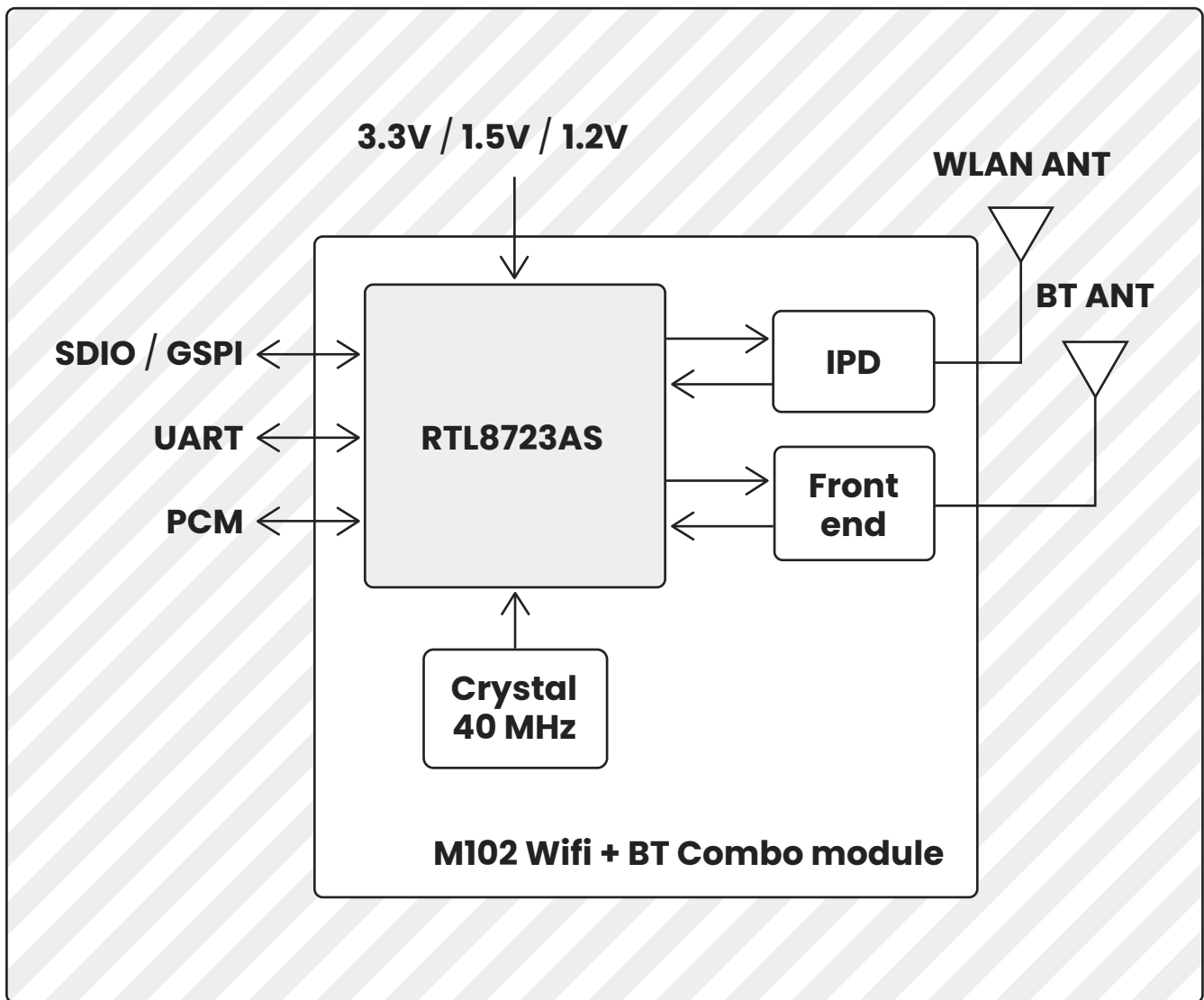


Features :

- Complies with 802.11 b/g/n
- Supported 20/40 MHz bandwidth for WiFi
- Supported SDIO 1.1/2.0/3.0 up to 100MHz clock rate
- Complies with BT 2.1+EDR/3.0/4.0
- HS-UART interface compliant with H4/H5
- Supported WiFi/BT co-existence
- Single 3.3v Power only

Application :

- Tablet
- Set-top box
- DSC
- TV Dongle
- ...



M901 Wifi + MCU module

Solution : BCM43362+ST MCU

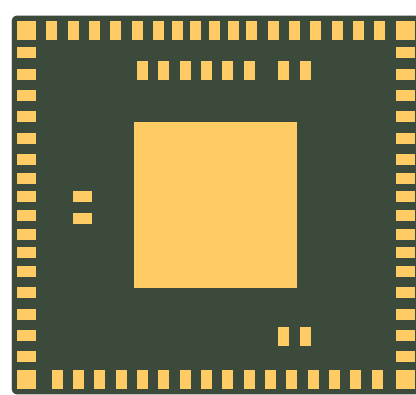
Functionality : Programmable

Size (mm) : 10 x 10 x 1.35 mm

Package : LGA-81 pin

Power : 3.3v

Interface : Multi-Interface

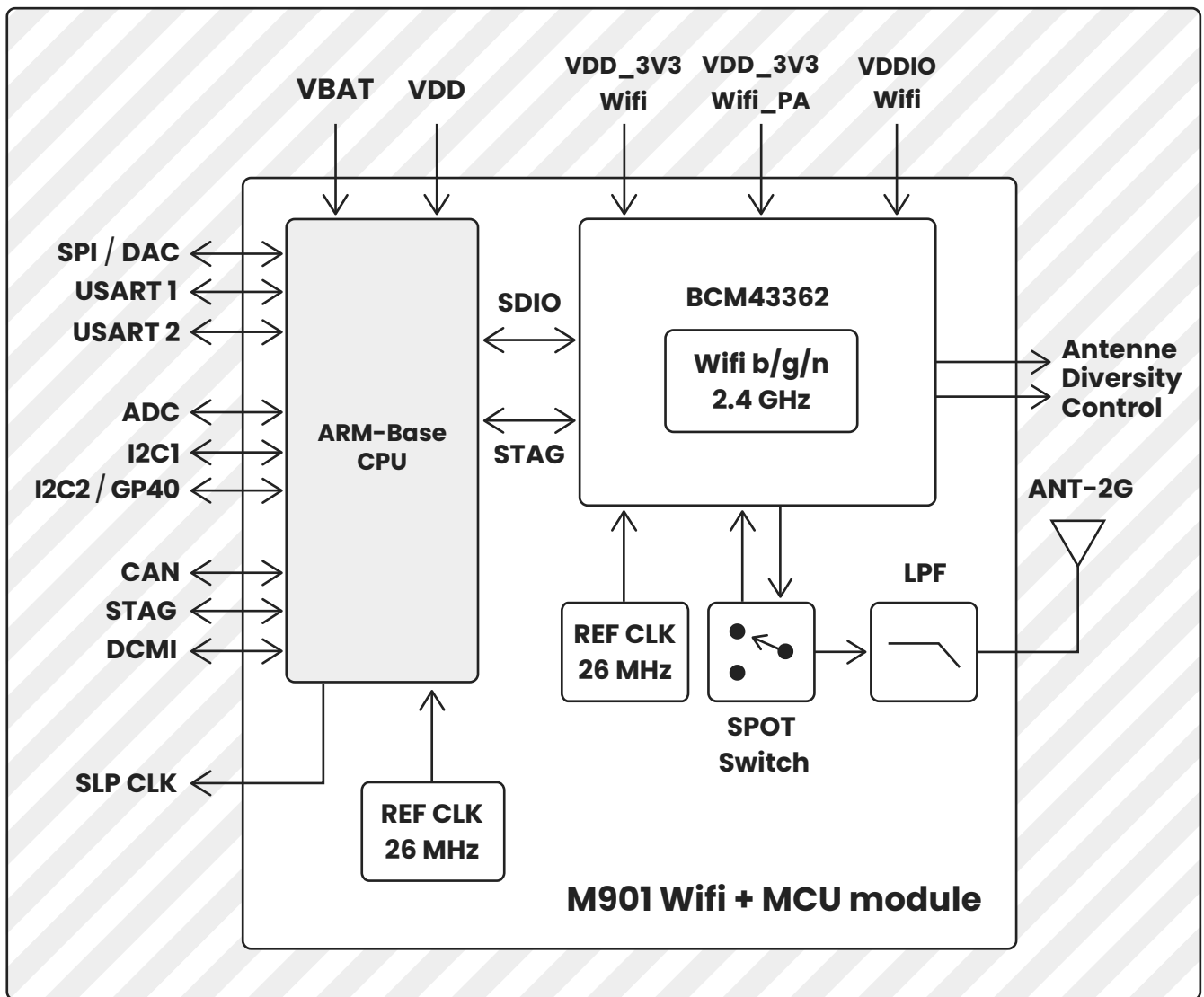


Features :

- MCU : STM ARM 32bit CortexM3 120MHz
- Complies with 802.11 b/g/n
- Including WiFi protocol stack
- Easy use, min. porting effort
- Single 3.3v Power only
- RoHS compliant / Lead Free

Application :

- Home appliance
- IPC
- Surveillance
- ...



M903 BLE + MCU module

Solution : CSR 1010

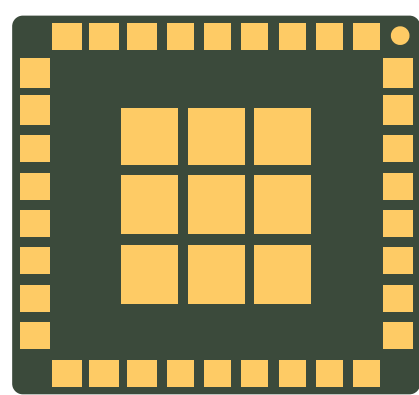
Functionality : Programmable

Size (mm) : 9 x 9 x 1.3 mm

Package : LGA-32 pin

Power : 3.3v

Interface : UART / SPI / I2C

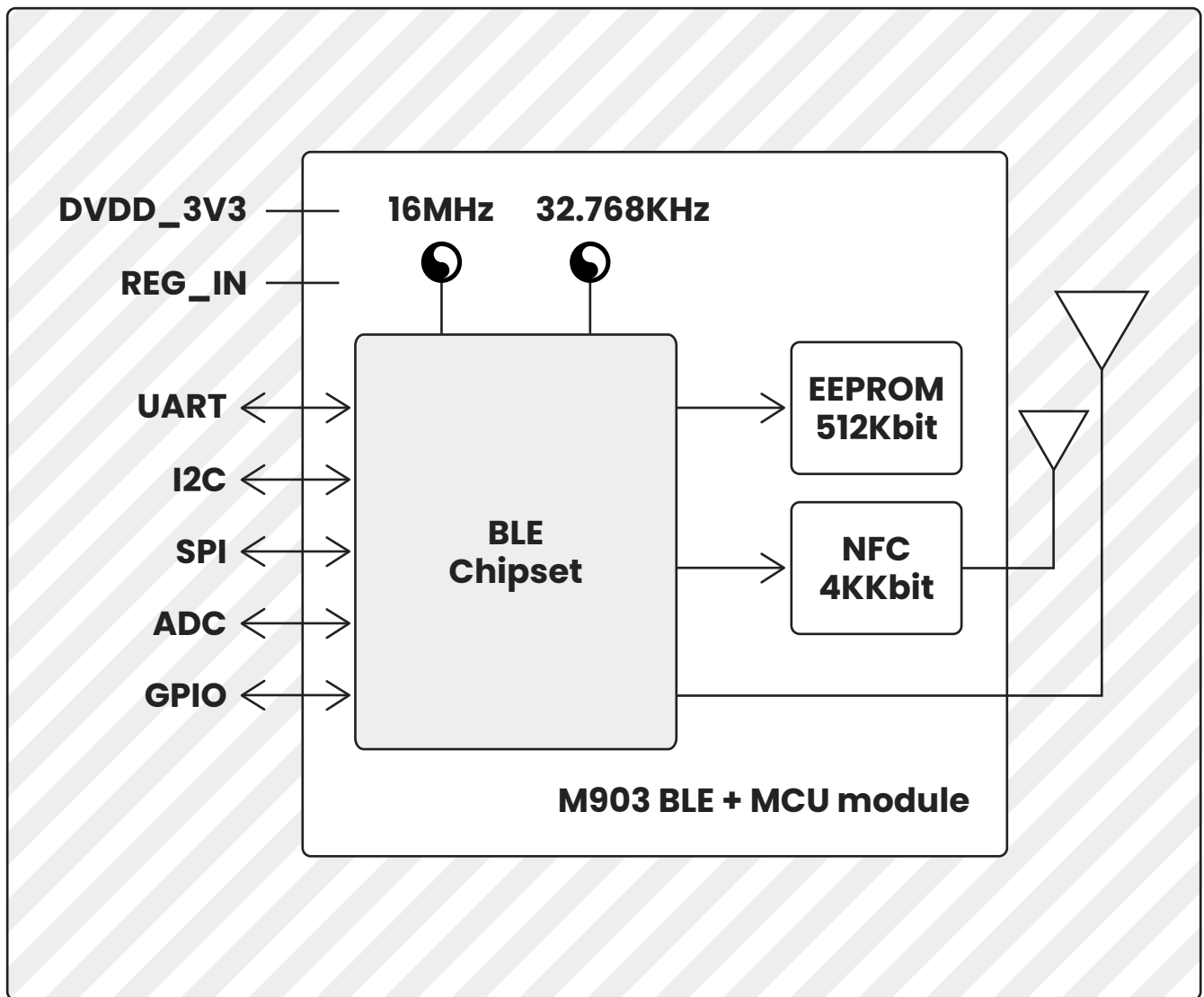


Features :

- Bluetooth 4.0 LE single mode
- Low power 16-bits microcontroller core
- Easy use, min. porting effort
- Single 3.3v Power only
-
-

Application :

- Pedometer
- ECG
- Glucose Sensor
- Beacon
- LED Lighting
- ...



M904 BLE + MCU module

Solution : Nordic nRF51822

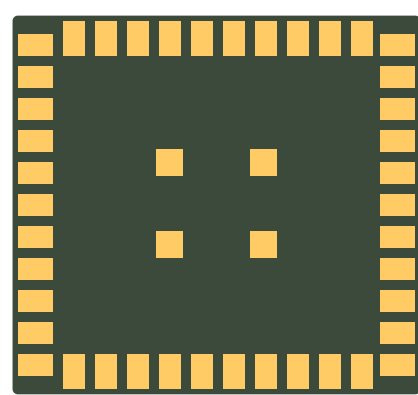
Functionality : Programmable

Size (mm) : 6.5 x 6.5 mm

Package : LGA-32 pin

Power : Typ. 3V (1.8~3.6V)

Interface : UART / SPI / I2CC

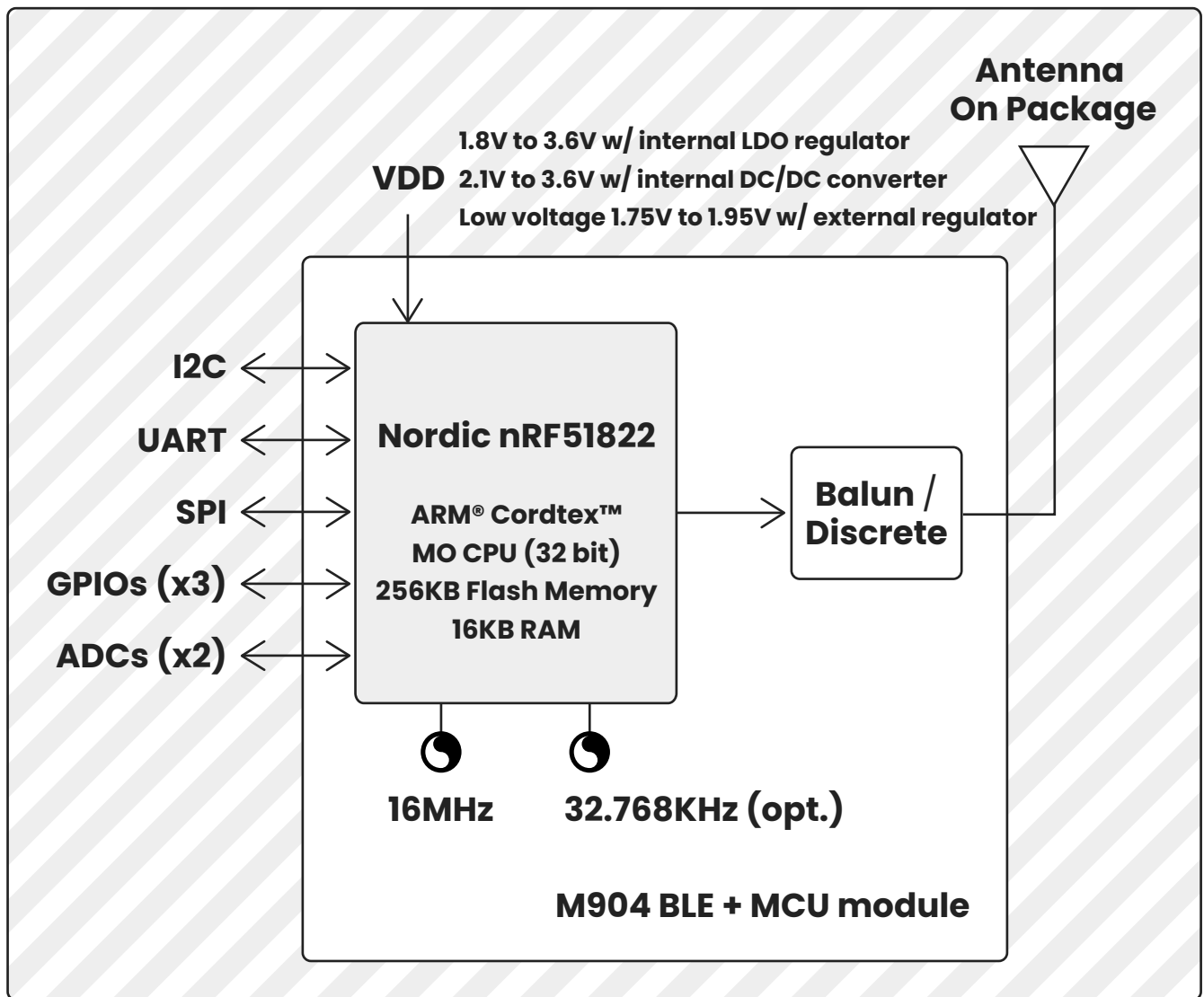


Features :

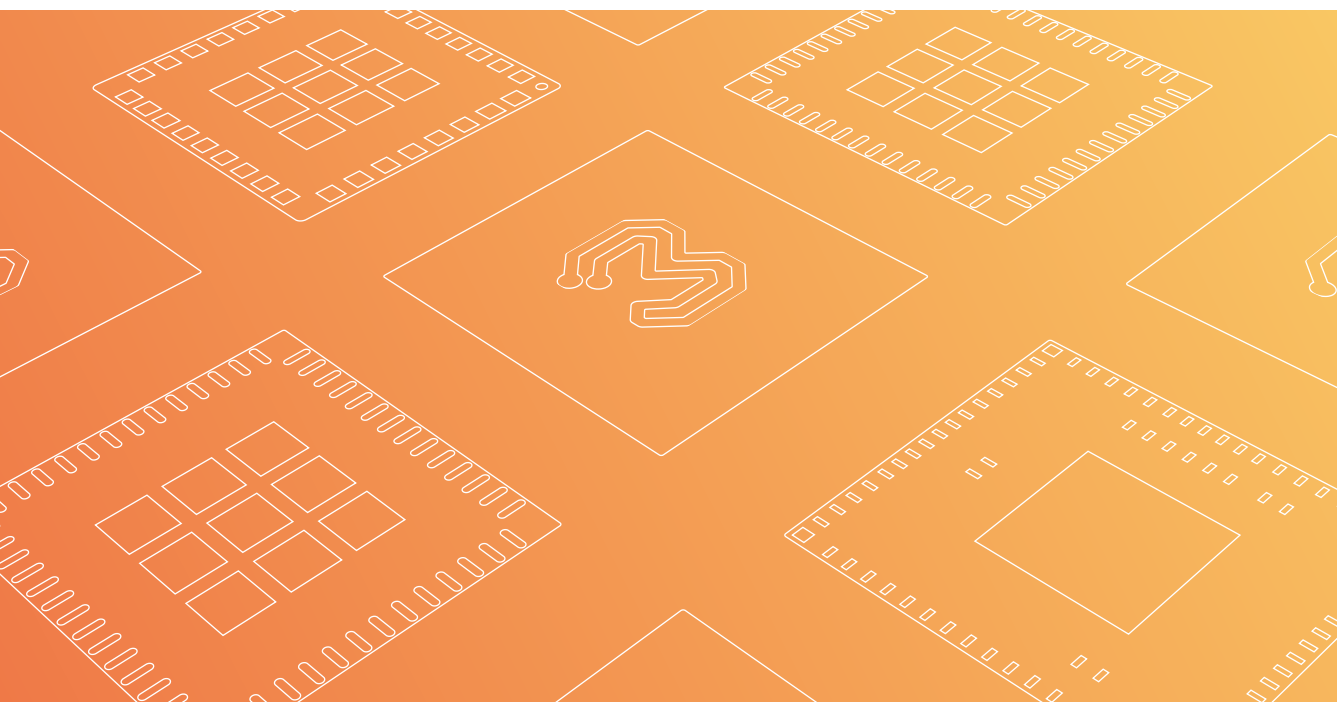
- Bluetooth 4.0 LE single mode
- ARM® Cortex™-M0 32 bit processor
- Easy use, min. porting effort
- Flexible Power Management (1.8~3.6V)
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Application :

- Wearable
- Tracker
- Beacon
- Toys
- ...



Custom SIP



- ✓ Feasibility Check
- ✓ Simulation
- ✓ Module Design
- ✓ Module Manufacturing
- ✓ Test Program Development
- ✓ Test Production
- ✓ Reliability and Qualification
- ✓ Failure Analysis