MTC.2 N9151

USING THE LOOUQ MTC2-N9151 IN YOUR APPLICATION

MTC.2 N9151

The LooUQ MTC2-N9151 (part nm) embedded modem is a compact, drop-in communication device for any number of modern IoT applications.

At the heart of the MTC2-N9151 is a Nordic Semiconductor nRF9151 SIP, the MTC2-N9151 facilitates adding the nRF9151 to your design by building a support ecosystem around the SIP and exposing its features via an industry standard card-edge connector.

The MTC2-N9151 provides both compute with its Cortex M33 application core and communications with its dedicated modem core. Having both MCU and modem in one component lowers BOM cost and provides for rich interactions between application and communications channel.

MTC.2

The MTC2-N9151 leverages the LooUQ MTC.2 interface specification. The MTC.2 interface is built on top of the widely used M.2 connector.

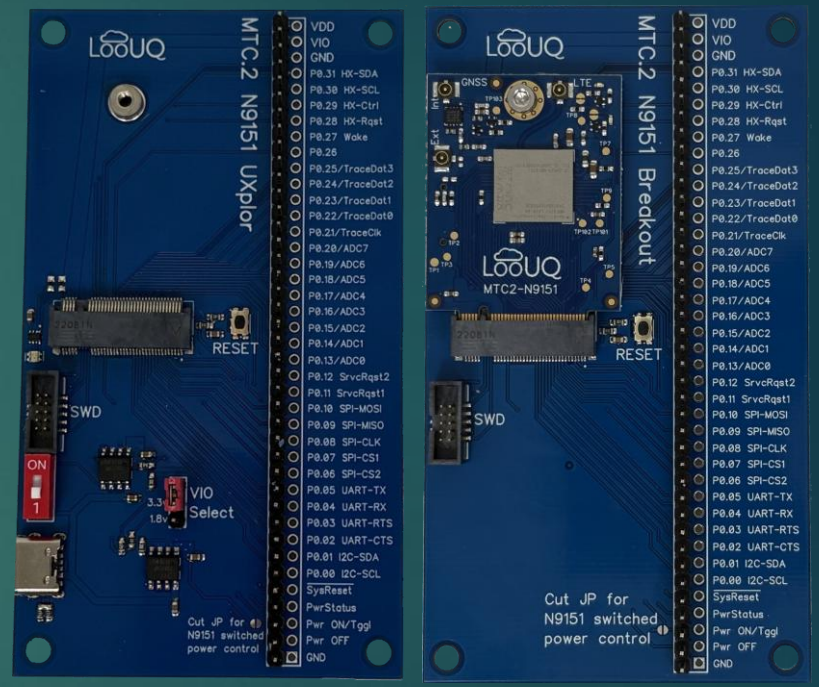
M.2 connectors come in several variants, based on the “keying” of the PCB edge pattern. Most have only a single key slot, some have two.

The LooUQ MTC.2 interface utilizes the “M” key type connector.

Other interfaces utilize the M.2 connector, but they are not compatible with the LooUQ MTC.2 interface.

Implementing With The MTC2-N9151

- Start with the MTC2-N9151 paired with one of LooUQ's development boards: the MTC2-N9151-UXP and MTC2-N9151-BRK.
- The UXP (shown with N9151 modem) is great to start software development. The BRK targets power management and battery life planning.
- Then… adapt your own board for the MTC2-N9151 using LooUQ provided design resources.
  - MTC.2 Interface Specification
  - MTC.2 Physical PCB Layout Model
  - Start new using the design files provided for the two boards shown here (DipTrace or Eagle).



As Always…

Please ask if questions, LooUQ is always happy to help.

Unsure? LooUQ can provide direct assistance with steps along your journey if needed.

- Firmware development
- Custom PC board design and manufacture

Thank You!