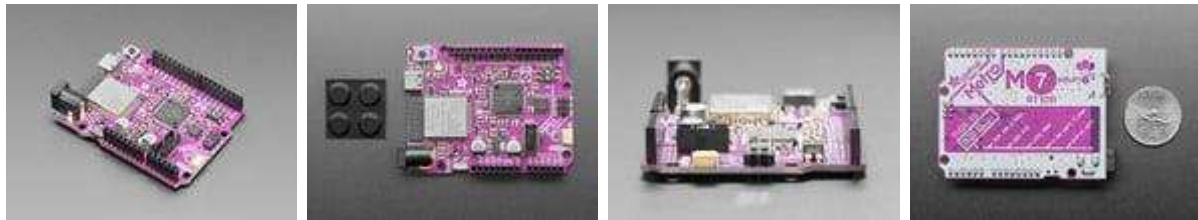# Adafruit Metro M7 with AirLift – Featuring NXP iMX RT1011

Product ID: 4950

Description

Get ready for our fastest Metro ever – the NXP iMX RT1011 microcontroller powers this board with a 500 MHz ARM Cortex M7 processor. There's 8 MB of execute-in-place QSPI for firmware + disk storage and 128KB of SRAM in-chip

We're still working on the design but here's some stuff you can look forward to:

Features:

- NXP iMX RT1011 processor – ARM Cortex M7 processor running at 500 MHz, with 128KB SRAM and high speed USB!
- AirLift WiFi Co-processor, with TLS/SSL support, plenty of RAM for sockets, communication is over SPI and has CircuitPython library support ready to go for fast wireless integration.
- 8MB of QSPI XIP Flash
- Power options – 6-12VDC barrel jack or USB type C
- UNO-shape so shields can plug in
- Reset button – Click to restart, double-click to enter UF2 bootloder
- Boot-mode switches to get into the ROM bootloader (you can always reload code over USB if TinyUF2 gets corrupted somehow)

- SWD connector for advanced debugging access.
- On/Off switch
- STEMMA QT connector for I2C devices
- On/User LEDs + status NeoPixel
- Works with CircuitPython!
- 53.2mm x 72mm / 2" x 2.8"
- Height (w/ barrel jack): 14.8mm / 0.6"
- Weight: 22.5g

YouTube links:

https://www.youtube.com/watch?t=159&v=dl-oBdtk0fM&embeds_euri=https%3A%2F%2Fwww.adafruit.com%2F&feature=emb_imp_woyt

https://www.youtube.com/watch?t=31&v=zxqhKr-R724&embeds_euri=https%3A%2F%2Fwww.adafruit.com%2F&feature=emb_imp_woyt

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https://www.youtube.com/watch?v=6GXRRuFuFy0&embeds_euri=https%3A%2F%2Fwww.adafruit.com%2F&feature=emb_imp_woyt

Technical Details