

4950 Metro M7 with AirLift

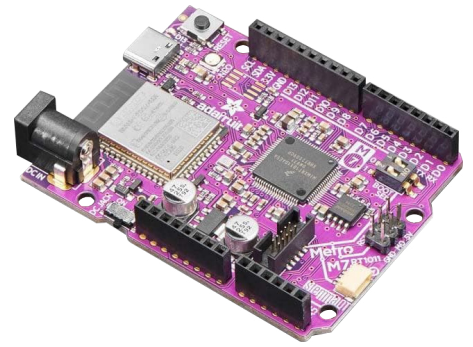
NXP iMX RT1011 MCU

05/12/2026

For the most up-to-date information, visit [mouser.com](https://www.mouser.com) or the manufacturer's website.

DESCRIPTION

Adafruit 4950 Metro M7 with AirLift features a NXP iMX RT1011 microcontroller with a 500MHz Arm® Cortex® M7 processor. This device incorporates an 8MB QSPI XIP Flash, 128KB SRAM, and a WiFi® co-processor using an on-board ESP32 module. The metro M7 AirLift offers a 6VDC to 12VDC barrel jack or a USB Type-C™ power option. This fully open-source board is compatible with Arduino shields and includes a USB drag-and-drop bootloader and CircuitPython for quick and easy development. The metro M7 AirLift is available in dimensions of 53.2mm x 72mm/ 2-inch x 2.8-inch with a height of 14.8mm/0.6" height (with barrel jack). Typical applications include home automation, data logging, remote control systems, wearable technology, prototyping, weather stations, IoT projects, and educational projects.



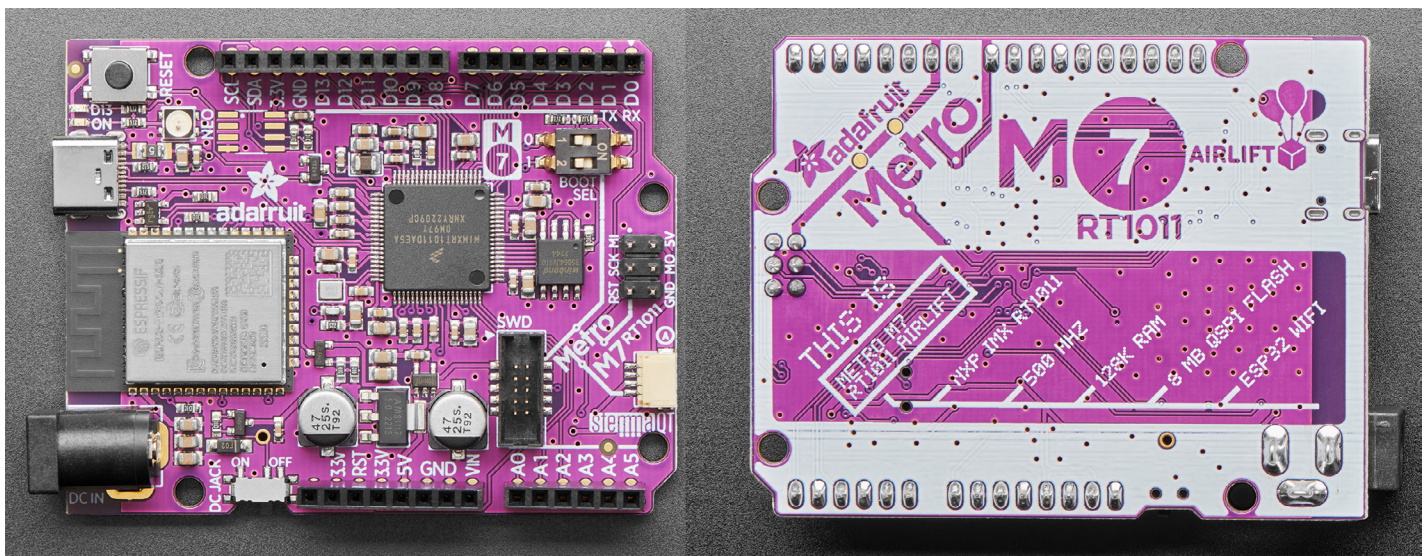
APPLICATIONS

- IoT projects
- Home automation
- Wearable technology
- Data logging
- Remote control systems
- Educational projects
- Prototyping
- Art and interactive installations
- Wearable health monitors
- Weather stations

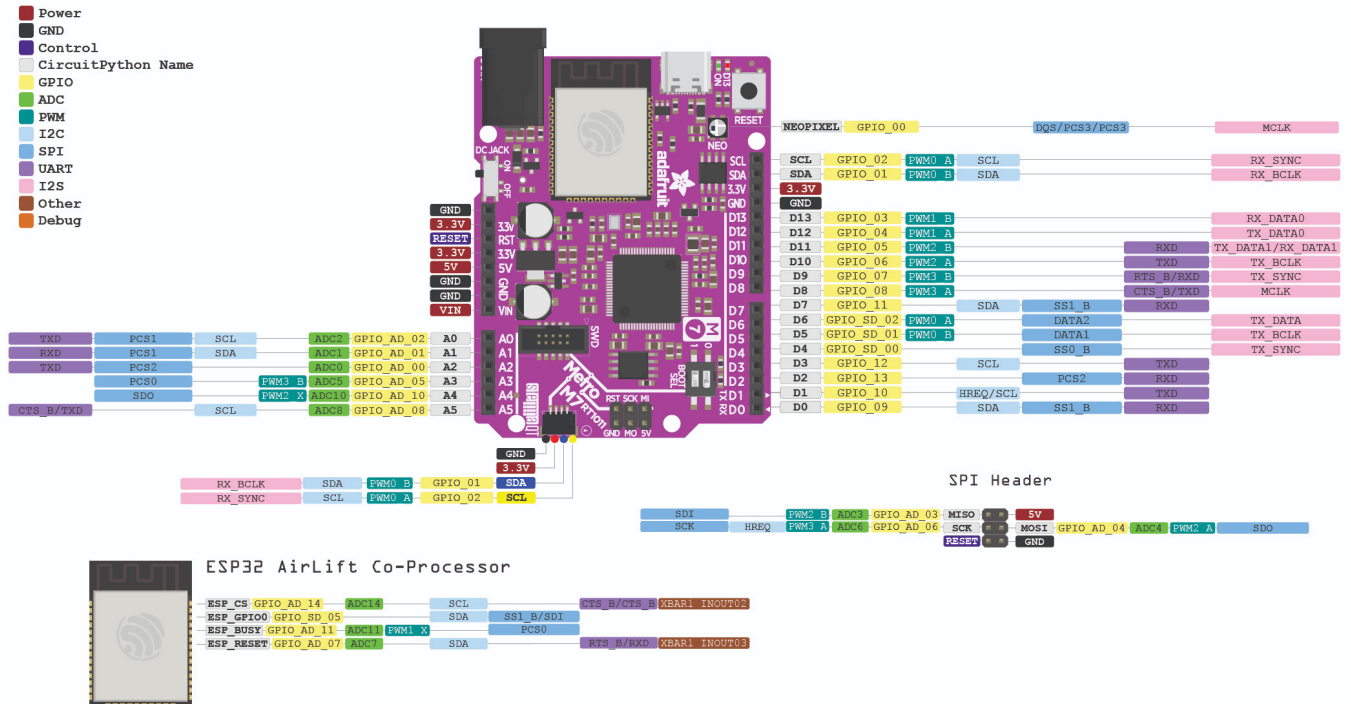
FEATURES

- NXP iMX RT1011 processor, Arm® Cortex® M7 processor running at 500MHz, with 128KB SRAM and high-speed USB
- AirLift Wi-Fi® co-processor with TLS/SSL support, plenty of RAM for sockets, communication is over SPI with CircuitPython library support ready to go for fast wireless integration
- 8MB of QSPI XIP Flash
- ESP32 Wi-Fi co-processor is programmed with 'nina-fw' firmware as a SPI-to-wireless
- 6VDC to 12VDC barrel jack or USB Type-C™ power options
- UNO-shape so shields can plug in
- Reset button: click to restart and double-click to enter UF2 bootloader
- Boot-mode switches to get into the ROM bootloader
- 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"
- 14.8mm/0.6" height (with barrel jack)

PINOUTS DIAGRAM



PINOOTS DIAGRAM



MOUSER PART NUMBER

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