



SparkX SAMD21 Pro RF 1W

SPX-15034

LoRa stands for 'Long-Range,' referring to a modulation technique whose specialty is low power transmission of small data packets – perfect for Internet of Things applications. Using either point-to-point radio or LoRaWAN you can send data from a node in a remote location back to your base station to check in on sensors or track equipment. Communication is possible in the other direction as well to send commands or control actuators!

This is the updated version (x02) of the original. We've removed the battery charger so that you can now power it with up to 15 volts in the field, removed a redundant U.FL connection for cleaner RF output, and most importantly exposed the flash memory on a separate SPI port. This makes the board compatible with Micro/CircuitPython while still being able to run the radio module.

Checkout the [SAMD21 Mini/Dev Breakout Hookup Guide](#) as a general starting point for the SAMD21 Pro RF 1W.

To get you started we've included some basic Point-2-Point examples.

Experimental Product: [SparkX](#) products are rapidly produced to bring you the most cutting edge technology as it becomes available. These products are tested but come with no guarantees. Live technical support is not available for SparkX products. Head on over to our [forum](#) for support or to ask a question.

SPI Silkscreen Mis-label The top side silkscreen tag for SPI (not SPI1) should read MISO MOSI SCLK from left to right. (Instead it reads MOSI MISO SCLK). The labels are correct on the bottom side.



