FZ1101UGLYPCB – Technical Datasheet

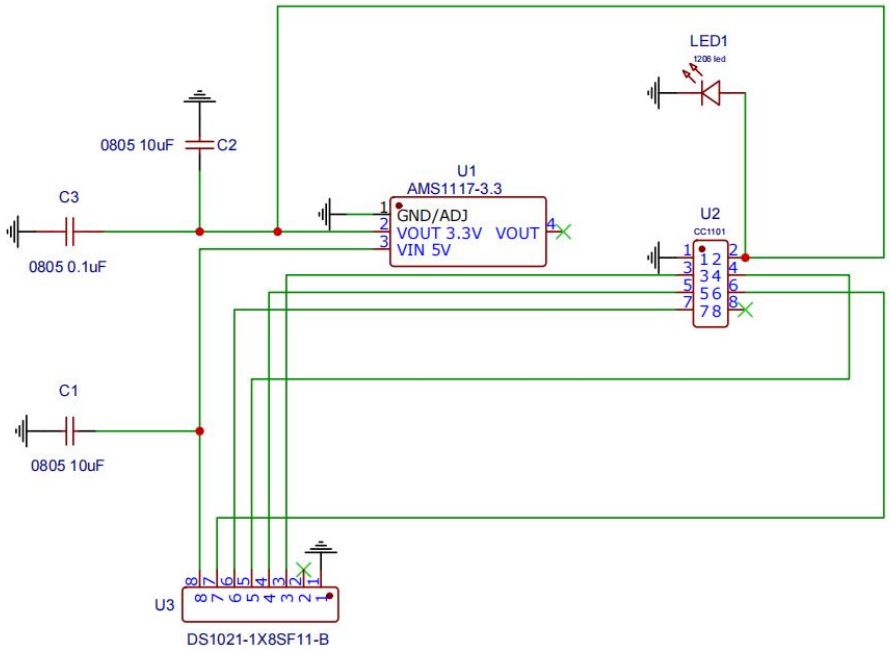
Revision: 1.0
Date: May 7, 2025
Designed by: t.me/HEKPACUBOE
Company: t.me/UGLY_STICK
Dimensions: 33mm x 18mm
Mounting Type: Through-hole & Surface-Mount

Purpose and Overview

This PCB is a breakout/conversion board designed to integrate the CC1101 RF transceiver module with a FZ or other microcontroller systems via GPIO headers. The board features voltage regulation, decoupling, and LED indication

Major Components and Schematics

Position	Part Number	Package	Description
U1	AMS1117-3.3	SOT-223-4	3.3V Linear Voltage Regulator
U2	CC1101	N/A	433/868/915 MHz RF Transceiver
U3	DS1021-1X8SF11-B	Pin Header	8-pin female header for GPIO
C1, C2	10 µF (0805)	SMD 0805	Input/Output Caps for AMS1117
C3	0.1 µF (0805)	SMD 0805	Decoupling capacitor for CC1101
LED1	SMD LED (1206)	SMD 1206	Power/Status LED (color not specified)



Pinout – GPIO Header (U3)

Pin (Module)	Function (FZ)
1	GND
2	VCC (5V input)
3	MOSI
4	MISO
5	SCK
6	CSN
7	GDO0
8	GDO2

**Note: Signal naming follows typical CC1101 SPI wiring conventions*

Power Supply

· **Input Voltage:** 5V via GPIO header (Pin 2)

· **Regulated Output:** 3.3V (provided to CC1101 via AMS1117)

· **Onboard LED:** Likely powered by 3.3V rail with series resistor (value not specified)

PCB Layout Highlights

· AMS1117-3.3 provides power regulation from 5V to 3.3V.

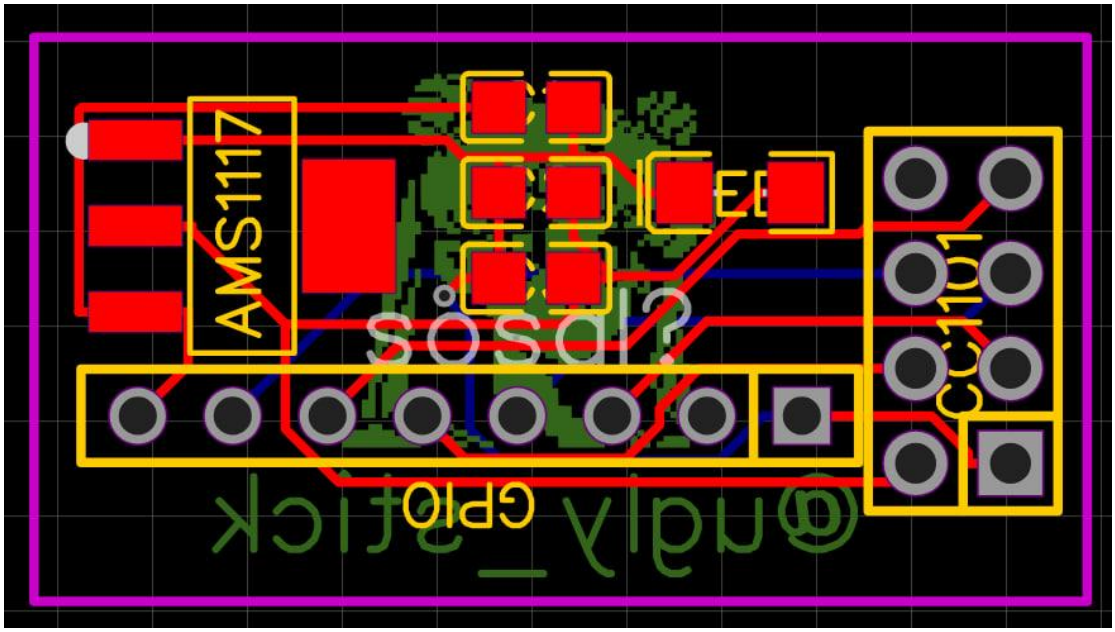
· CC1101 module connects through a right-angle header for direct module insertion.

· GPIO header allows direct connection to Flipper Zero or other host devices.

· Silk labels include “SOSAT?” (possibly a placeholder or internal project label).

· Distinct silk marking for CC1101 module footprint for ease of orientation.

Footprints



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