

IMU-45686

Schematic Diagram:

The schematic shows the internal components and their connections:

- U1: NCP110AMX180TBG** (Voltage Regulator)
 - IN: Connected to VDDIO (pin 2) via C1 (1uF, 25V, X5R, 1005).
 - EN: Connected to GND (pin 3).
 - OUT: Connected to VDD (pin 1) via C2 (1uF, 25V, X5R, 1005).
- U2: ICM-45686** (IMU)
 - VDDIO: Connected to VDDIO (pin 2) via C3 (1nF, 50p, X5R, 1005).
 - VDD: Connected to VDD (pin 1) via C4 (0.1uF, 50V, X5R, 1005).
 - SCK: Connected to SCK (pin 3).
 - MOSI: Connected to MOSI (pin 4).
 - MISO: Connected to MISO (pin 5).
 - CSX: Connected to CSX (pin 6).
 - INT: Connected to INT (pin 7).
 - GND: Connected to GND (pin 8).
- Passive Components:**
 - R1: 470k, 1005 (connected to INT).
 - R2: 470k, 1005 (connected to INT).

Connector Layouts:

Option 1: FFC 0.5mm pitch, 8pin

IMU side:

- VDD 1
- VDDIO 2
- SCK 3
- MOSI 4
- MISO 5
- CSX 6
- INT 7
- GND 8

HOST side:

- 8 VDD
- 7 VDDIO
- 6 SCK
- 5 MOSI
- 4 MISO
- 3 CSX
- 2 INT
- 1 GND

Option 2: 2.54mm pitch CN

IMU side:

- VDD 1
- VDDIO 2
- SCK 3
- MOSI 4
- MISO 5
- CSX 6
- INT 7
- GND 8

IMU-CN254:

- 8 VDD
- 7 VDDIO
- 6 SCK
- 5 MOSI
- 4 MISO
- 3 CSX
- 2 INT
- 1 GND

HOST side:

- 1 2
- 3 4
- 5 6
- 7 8

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