![SmartWheels JTAG Adapter board with 10P to 20P converter and ribbon cable]

SmartWheels JTAG Adapter Pin-Out

ANCIT

20P 2.54mm

NC	VCC
GND	NC
GND	TDI
GND	TMS
GND	TCK
GND	NC
GND	TDO
GND	RST
GND	NC
GND	NC

10P 1.27mm

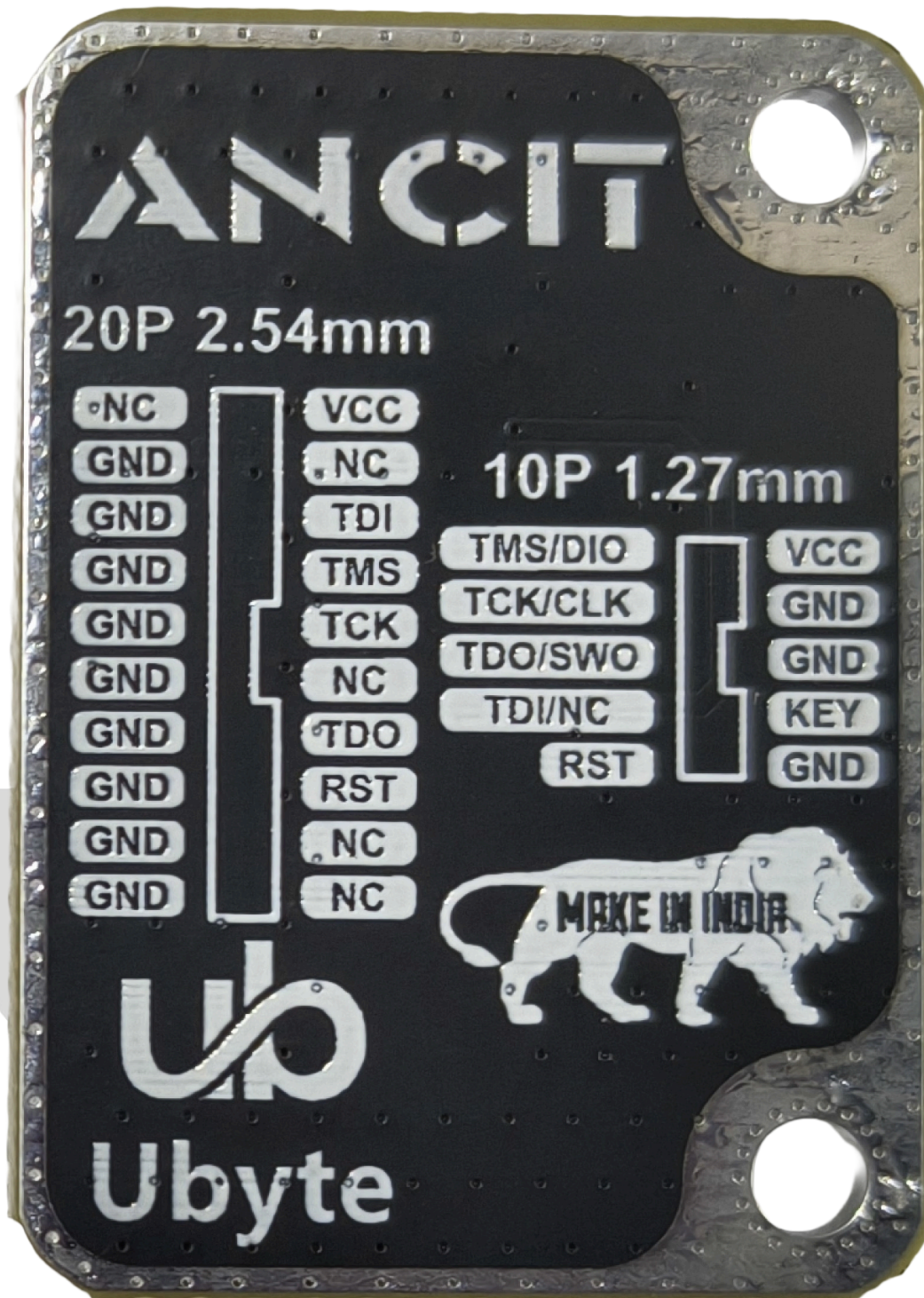| TMS/DIO | VCC |
TCK/CLK	GND
TDO/SWO	GND
TDI/NC	KEY
RST	GND

MAKE IN INDIA

Ubyte

UBYTE–SmartWheels JTAG Adapter

A Simple and Reliable Bridge Between 20-Pin and 10-Pin JTAG Interfaces

The **UBYTE–SmartWheels JTAG Adapter** converts the standard 20-pin 2.54 mm JTAG header into the smaller 10-pin 1.27 mm connector found on many modern ARM Cortex-M boards. This allows you to connect traditional debugging tools to compact hardware without compatibility issues.

Built for Everyday Use

- **Standard Compliant** – Uses the official ARM JTAG/SWD pinout to guarantee correct signal mapping and stable connections.
- **Tool Friendly** – Compatible with widely used debuggers such as **Segger J-LINK**, ARM-USB-OCD, ARM-USB-TINY, and many more.
- **Compact & Practical** – Small board size with **M3 mounting holes** makes it easy to fix securely in enclosures, test rigs, or development setups.

Safe and User-Focused Design

- **ESD Protection Ring** – The board includes a protective **ESD guard ring**. This feature directs static electricity safely to ground instead of sensitive signal lines, making the adapter safer to handle by hand during development.
- **Cable Included** – Each adapter ships with a **20 cm 10-pin 1.27 mm JTAG ribbon cable**, so you can start working immediately without hunting for the right accessories.

Key Benefits

- Converts **20-pin 2.54 mm JTAG** header to **10-pin 1.27 mm** ARM Cortex-M header
- Fully compliant with ARM JTAG/SWD pinout standard
- Compatible with Segger J-LINK, ARM-USB-OCD/TINY, and other JTAG/SWD programmers
- Compact PCB with **M3 mounting holes** for secure installation
- Safer to use thanks to the **integrated ESD guard ring**
- Supplied with a **20 cm 10-pin 1.27 mm JTAG ribbon cable**

Included in Box

- SmartWheels JTAG Adapter
- 20 cm 10-pin 1.27 mm JTAG ribbon cable
- Plastic Carry on box Included

Example use-case for SmartWheels JTAG adapter with SmartWheels V1 Mini