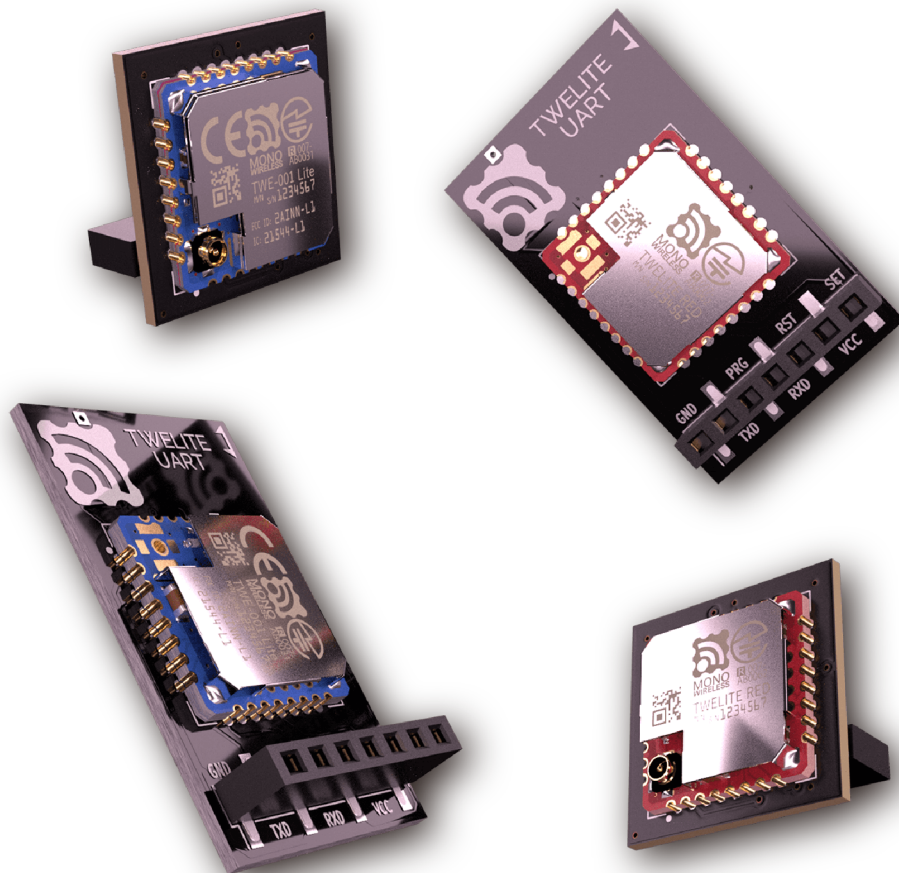
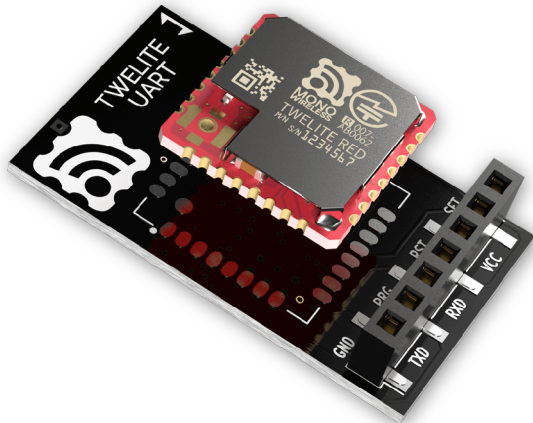




Twilight You Art
TWELITE UART

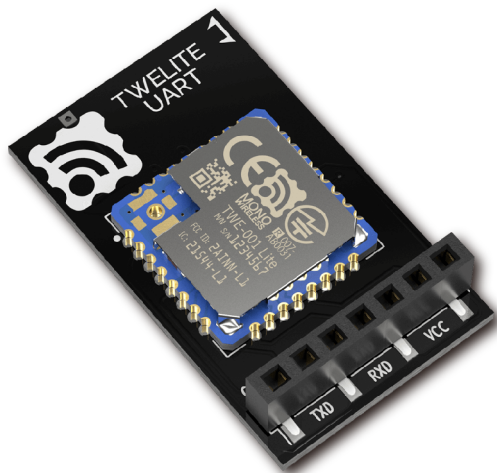


connecting to an external microcontroller via UART. It features a 7-pin socket including TX, RX, VCC, and GND. It is specifically designed for serial communication. ^{Twilight} TWELITE

► Origin of the name



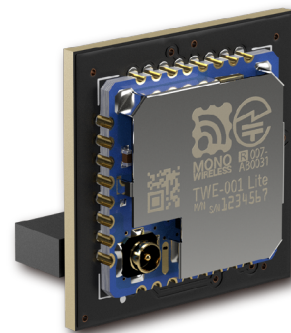
blue
BLUE



Product name: TWELITE UART

Model number: MW-B-UART-P

JAN: 4589512171171



Product name: TWELITE UART

Model number: MW-B-UART-U

JAN: 4589512171225



Surface mount

DIP-28 pin

7-pin socket

Transmission output

REGULAR

Standard output

STRONG

High output

antenna

External

Built-in

Initial app

APP_Uart

Surface mount

DIP-28 pin

7-pin socket

Transmission output

REGULAR

Standard output

STRONG

High output

antenna

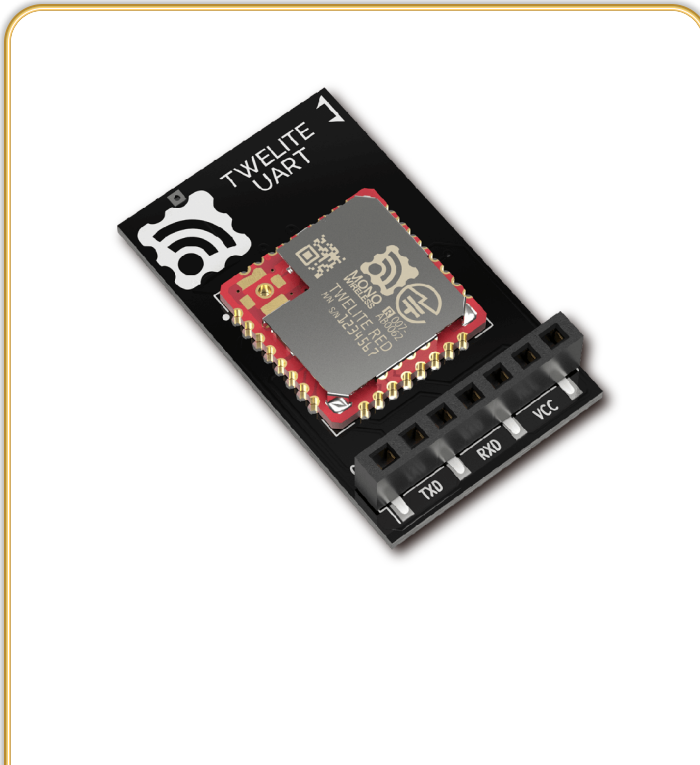
External

Built-in

Initial app

APP_Uart

Red
RED





Model number: MW-R-UART-P

JAN: 4589512171188



Surface mount



DIP-28 pin



7-pin socket

Transmission output



Standard output



High output

antenna



External



Built-in

Initial app



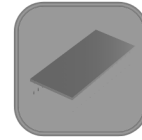
APP_Uart

Model number: MW-R-UART-U

JAN: 4589512171232



Surface mount



DIP-28 pin



7-pin socket

Transmission output



Standard output



High output

antenna



External



Built-in

Initial app



APP_Uart

[data sheet](#)

overview

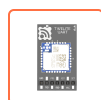
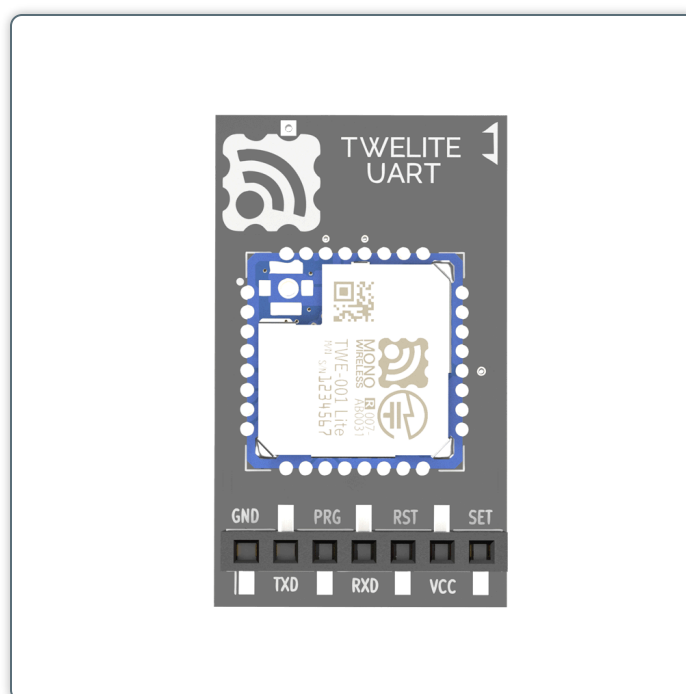
- ✓ [The serial communication application \(APP_Uart\)](#) is installed.
- ✓ You can edit and rewrite the app (firmware).
- ✓ By connecting the TX and RX signals, you can communicate with an external microcontroller.



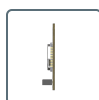
- ✓ You can choose between built-in and external antenna types.
- ✓ Lead-free and RoHS compliant.

Outline drawing

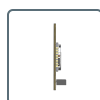
MW-B-UART-P, MW-R-UART-P



front



right side



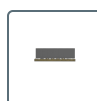
Left side



Back



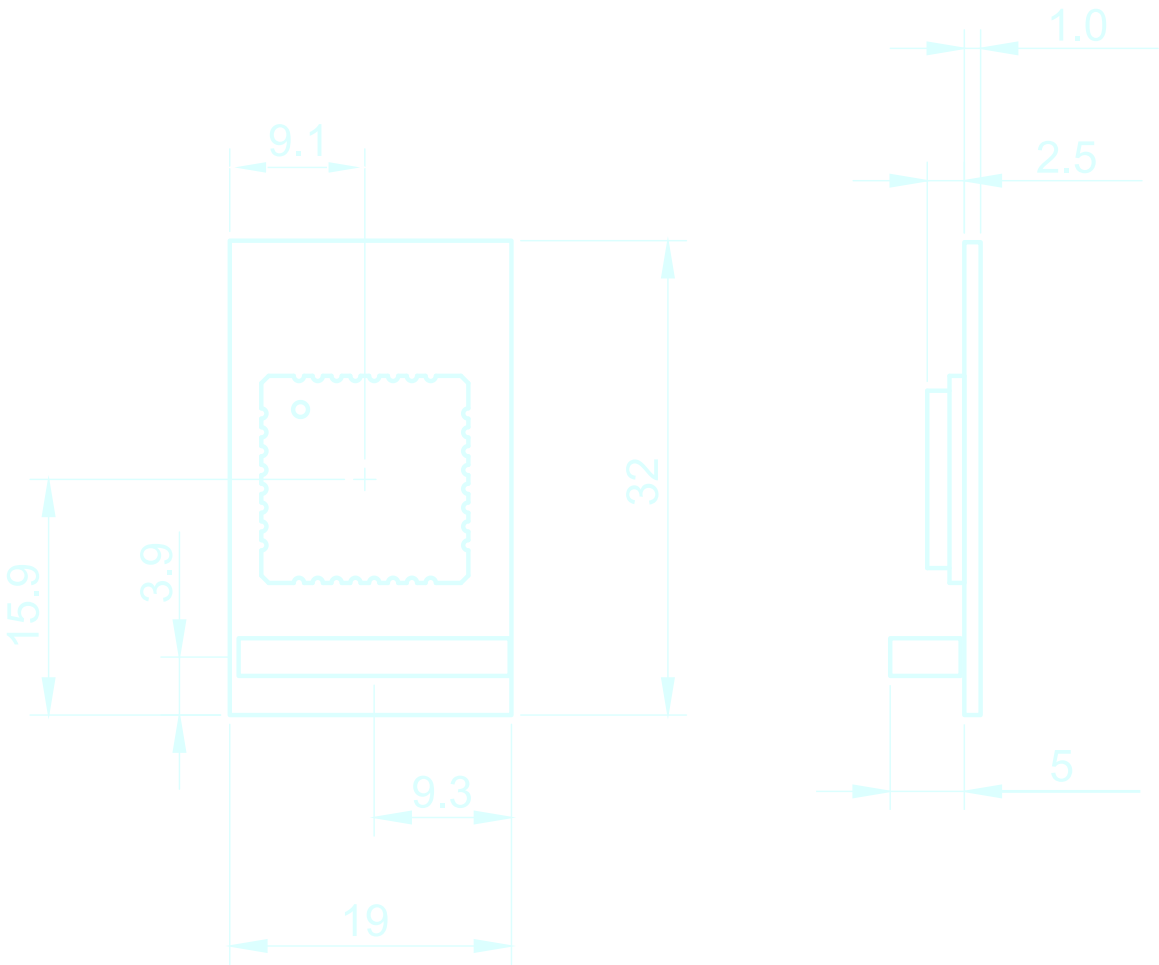
top surface



Bottom surface

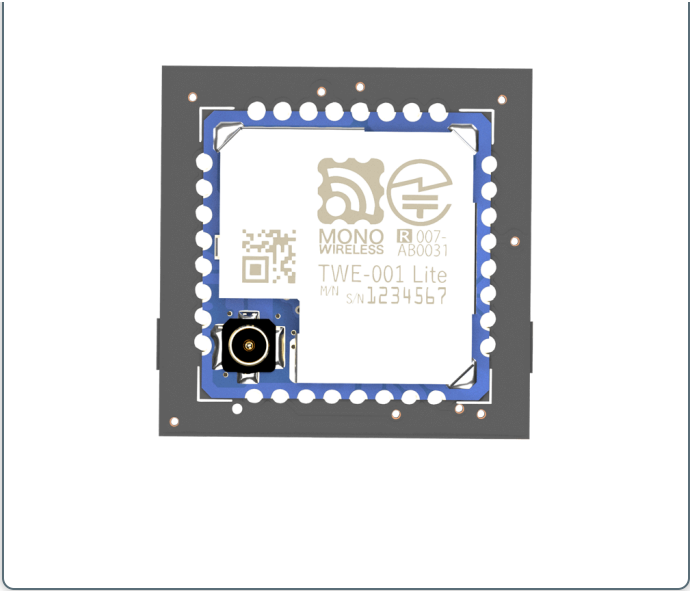


TWELITE UART



MW-B-UART-P / MW-R-UART-P [mm]

MW-B-UART-U, MW-R-UART-U



front



right side



Left side



Back



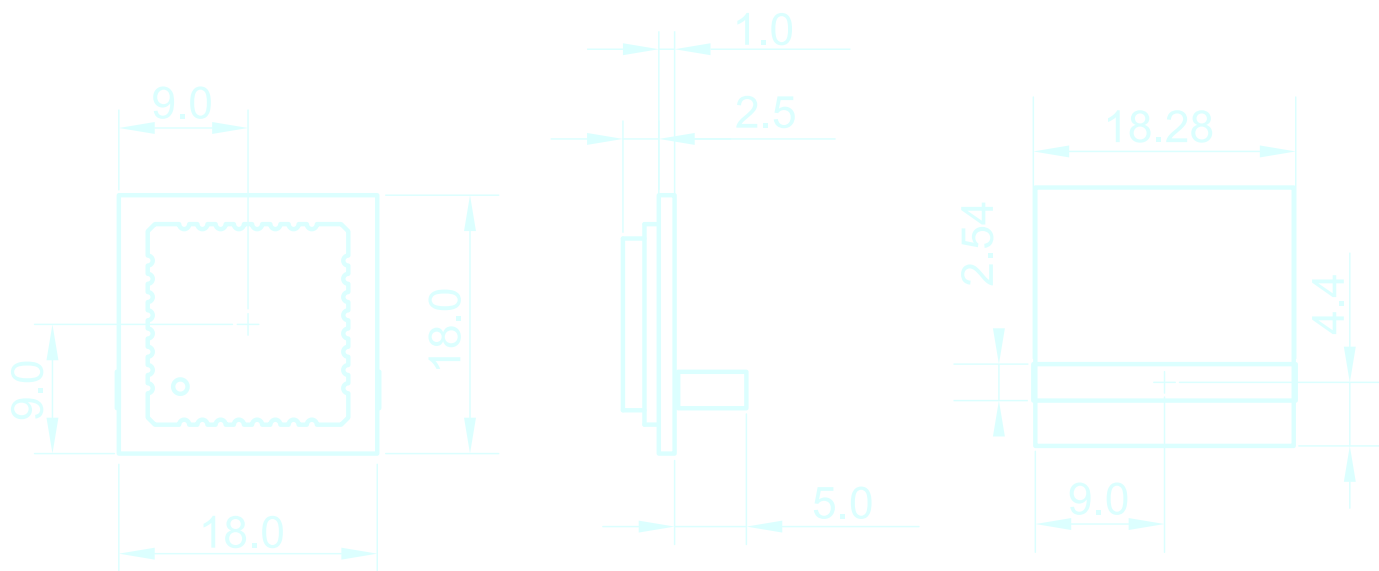
top surface



Bottom surface



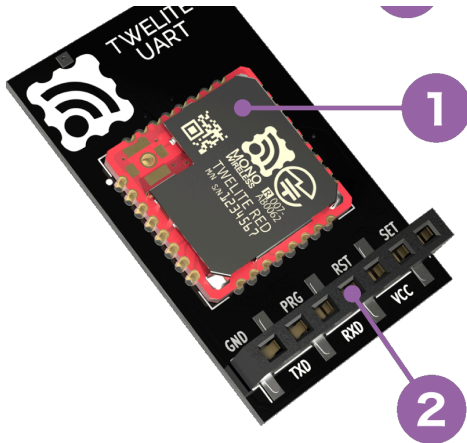
TWELITE UART



MW-B-UART-U / MW-R-UART-U

[mm]

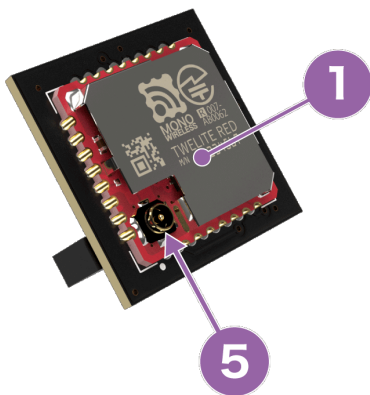
Explanation of each part



MW-x-UART-P (table)



MW-x-UART-P (rear)



MW-x-UART-U (Table)



MW-x-UART-U (reverse side)

- 1 TWELITE
- 2 7P interface
- 3 Antenna direction mark
- 4 Circuit board antenna
- 5 Coaxial connector



Twilight

TWELITE This is a wireless microcontroller that operates with low power consumption.

2 7P interface



This is a terminal for connecting to an external microcontroller or similar device via UART.

It will also be used as the standard interface for configuring and writing to the application.

The following is a table showing the correspondence between signal pins.

name	Signal name	TWELITE DIP	TWELITE (SMD)	explanation
GND	GND	1, 14	20, 28, 30, 31, 32	Negative side of the power supply
TXD	DIO6	10	8	Serial output communication line (connects to the serial input terminal on the other end)
PRG	SPIMISO	7	2	Connecting to GND resets the device, while leaving it open or connecting to VCC transitions it to program mode.
RXD	DIO7	3	9	Serial input communication line (connected to the serial output terminal on the other end)



name

RST	RESETN	twenty one	twenty one	Connecting to GND resets the device.
VCC	VCC	28	5	Positive side of the power supply (2.0V - 3.6V)
SET	DIO12	-	-	Extended control signals



Neither the power line nor the signal line is compatible with 5V. Applying power to them will cause malfunction.



Twilighter
TWELITE R When connecting, please pay attention to the orientation. Connecting it in the wrong direction and applying power may cause a malfunction.

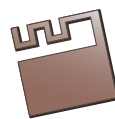
3 Antenna direction mark



To ensure good communication, it's important to pay attention to the orientation of the antennas. Radio waves have a direction called polarization. Matching the polarization direction of the communicating antennas improves communication sensitivity.

When the arrow on the antenna direction mark is aligned vertically, the antenna will be in a vertical position.

4 Circuit board antenna



This is a circuit board antenna ([MW-A-P1934](#)). It's an antenna constructed from circuit patterns on a circuit board.

[MW-A-P1934](#) >



A coaxial connector is a terminal used to connect an antenna.

[Coaxial connector antenna >](#)



Always connect an antenna to the coaxial connector before use.

► About the antenna



► Serial communication app



► Connection with TWELITE R



Online Manual

data sheet

Hardware specifications are described here.

[data sheet >](#)

Serial communication application (App_Uart)

This is an explanation of the apps (firmware) that are installed at the time of shipment.

[manual >](#)

TWELITE STAGE APP

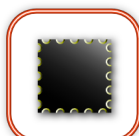
This is a guide to tools for rewriting the TWELITE app (firmware) and viewing the execution results.

[manual >](#)

retailers



Related Products



TWELITE



DIP



UART

Evaluation and development environment



STAGE



STAGE APP



App settings

Application
rewriting

programming



Software

[◀ TWELITE DIP](#)

前

次

[TWELITE PAL ▶](#)