# ADVANTECH

# ECU-1051TL
# Cloud-enabled Intelligent Communication Gateway for IIoT Applications

## Packing List

Before installation, please ensure that the following items have been included in your shipment:

1. ECU-1051 Product

## Overview

For distributed equipment management and maintenance, ECU-1051TL performs as a data publishing gateway from the field to the cloud. The operating temperature range is -40~70°C. This module is a cost-effective solution for industrial measurement and monitoring applications.



*Figure 1. Product Overview*

## Specifications

| Technical Specification of ECU-1051 | |
|---|---|
| Mounting | Wall-Mount/ DIN-Rail |
| Power Requirements | 10~30 $V_{DC}$ |
| Ethernet Ports | 2 x 10/100 Base-T RJ-45 ports |
| Serial Ports | 2 x RS232 / RS 485 |
| Indicators | Power, LAN(LINK, ACT), programmable |
| Watchdog | Built-in hardware & software |
| Storage | NAND Flash/ 512MB for system image 1 x Micro SD slot for data |
| Power Consumption | 2.4W @ 24$V_{DC}$ |
| Operating Temp. | -40 ~ 70 ℃ |
| Warranty | 2 years |

# Dimensions: (Unit: mm)
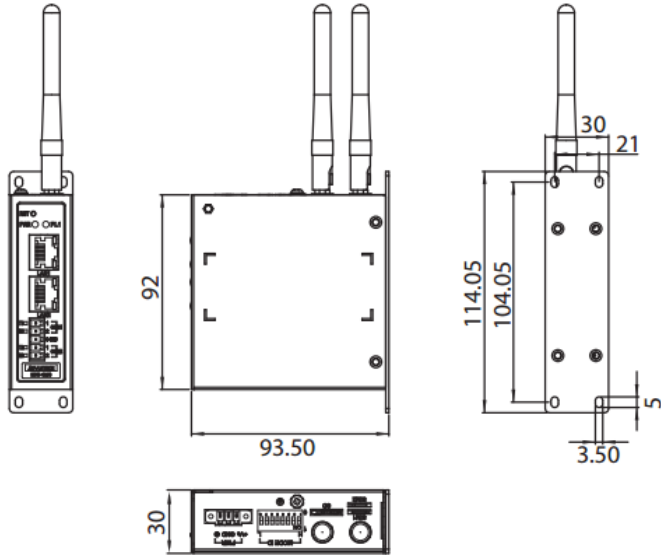


*Figure 2. Dimension*

# Power Supply Wiring
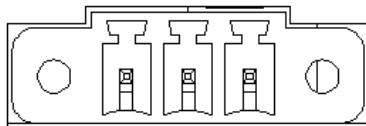


*Figure 3. Power Supply*

| Pin Definition | Description |
|---|---|
| +Vs | PWR V+ DC power input |
| GND | PWR V- DC power input |
| ⏚ | GND |

# Communication PIN Assignments

| RS-232/485 Serial Ports (Pin Assignments) | | | |
|---|---|---|---|
| Pins | 1 | 2 | C-GND |
| RS-232 | Rx | Tx | GND |
| RS-485 | Data+ | Data- | GND |

# Jumper Setting
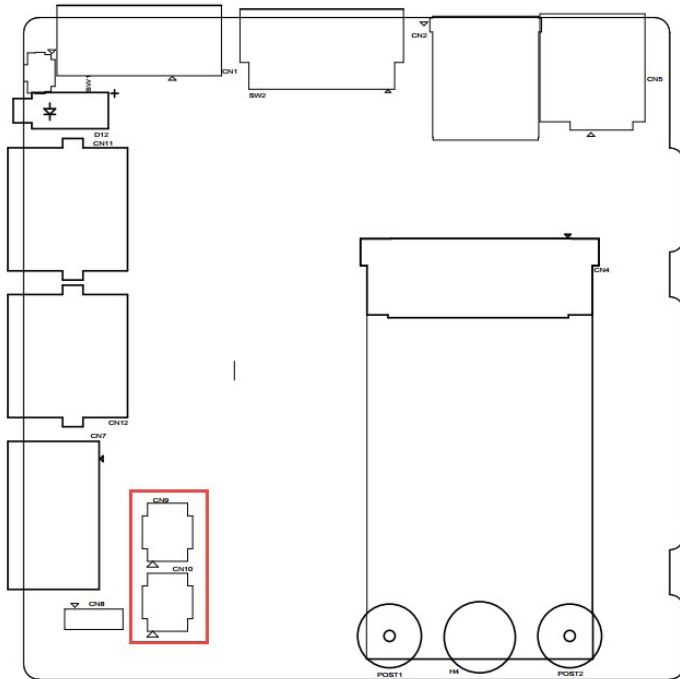


*Figure 4. Jumper Location*

| Serial Ports (RS232/RS485) | CN9(COM1) / CN10(COM2) | | |
|---|---|---|---|
| RS232 mode | (3-5) | (4-6) | |
| RS485 mode, No Terminator | (1-3) | (2-4) | Default |

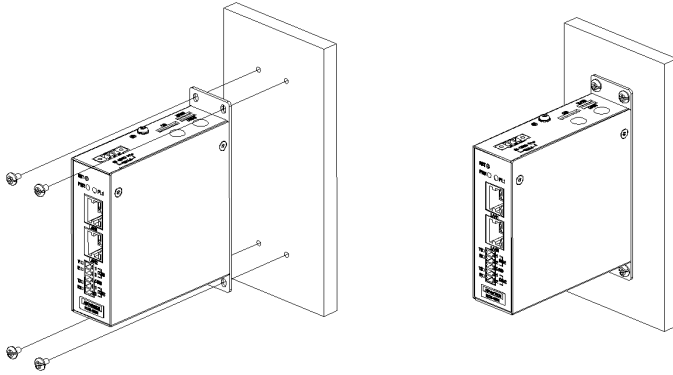# Installation

1. Wall Mount



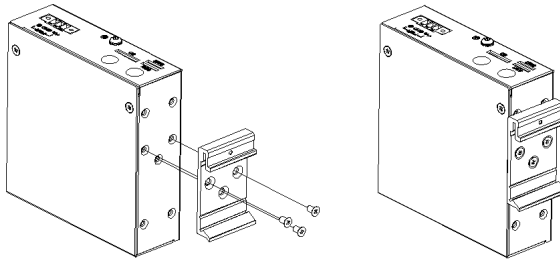*Figure 5. Wall Mount installation*

2. DIN-Rail
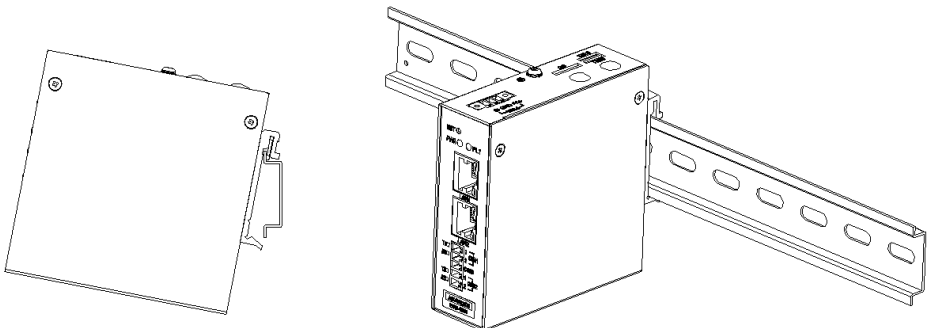


*Figure 6. DIN-Rail Kit*



*Figure 7. DIN-Rail installation*

## Installation (Cont.)
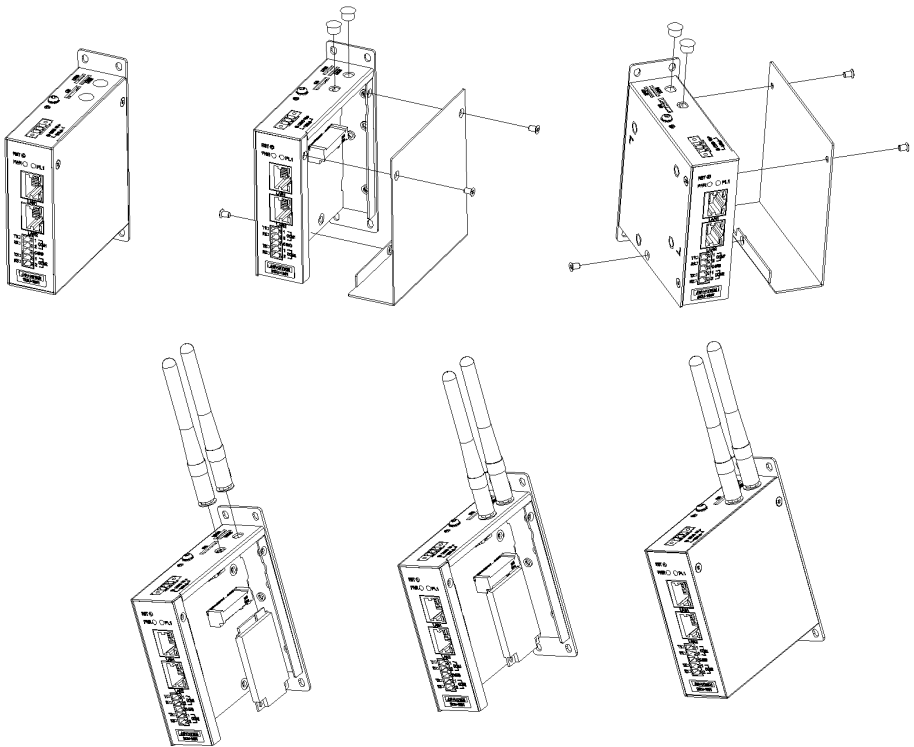
3. Wireless module & Antenna



*Figure 8. module & antenna installation*

## Software and User Manual

WISE-PaaS/EdgeLink Studio is for completing ECU-1000TL and its I/O configuration and management. The OS is Windows XP/Windows 7. The software installation package as well as user's manual can be acquired from the following path: http://www.advantech.com/