

# PIKA LITE- LTE Modbus Specifications

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## Overview

IoT device PIKA is an easy and intelligent device dedicated to collecting data from on-site Modbus RTU devices, and transmitting them to the user platform via LTE. The PIKA device can read up to 50 Modbus register addresses on the chain of 8 Modbus devices with the same configuration. Data transmitted is encrypted using the AES128 algorithm, ensuring privacy and integrity. In addition, the feature supports importing and exporting Modbus registers files to CSV format, allowing users to easily manage effectively.

## Specifications

### Category

### Specification

#### Wireless Transmission

LTE Cat 1 (FDD 1/3/5/8; TDD 34/38/39/40/41)  
Uplink: 5Mbps / Downlink: 10Mbps  
Protocol: TCP/IP  
Encryption: AES128

#### Modbus Interface

Modbus RTU (Terminal Block 3.81mm connector, 1200–115200bps)

#### Data Configuration

Port: Type-C  
Tool: WNE PC Tool Software

#### Physical Characteristics

Power: 6–24VDC (<8W)  
Connector: Terminal Block 3.81mm  
Material: PC+ABS, White  
Ingress Protection: IP54  
Operating Temp: -20°C~60°C  
Humidity: 0–95% RH  
Dimensions: 124×67×34 mm  
Installation: Wall mounting

#### Others

SIM card: NanoSIM  
Reset Button: Internal  
User Button : Run/Stop Mode  
4g Antenna: 2.8 dBi

## Software Features

- [Status Tab](#) – Display device status information.
- [LTE Setting](#) – Configure APN, AES128 Key, Server, and Port.
- [Modbus Setting](#) – Configure Modbus RTU parameters, register tables, CSV import/export, connection test.
- [Pulse Setting](#) – For pulse counter option.
- [Pressure Setting](#) – For pressure sensor option.
- [Basic Setting](#) – Configure Device ID, reporting interval, and password.
- [Serial Log](#) – Enable/disable serial port logging.

## Package Inclusions

1. 1 pc PIKA device
2. 1 pc 12V/1.5-2A Power Adapter (optional)
3. 1 pc LTE Antenna
4. 1 Type-C USB cable
5. 1 pc Terminal Block 3.81mm 6P



## Documentation

PIKA User Manual