

# 4G enabled Smart Energy Meter - Three Phase

## Datasheet

### Document Version:

SSTPL/ HW/ Smart Energy Meter-3 /1.0

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# 1. Brief Description

We call these energy meter a “**Smart Energy Meter**” because we (SSTPL) fixed our Network Interface Controller device inside the Energy meter and made these energy meters Smart. Our device is responsible for two-way communication. As our device work on **4G Fallback 2G Option**, we can read the Energy parameters anytime by sending command to the device through Head End Application. Smart Energy meter can be turned ON, OFF, recharged along with Energy parameters by sending commands anytime.

The 4G NIC Card, is inbuilt in the energy meter, is a compact, low cost, low power wireless module.

## 1.1 Features of Energy meter

- EB/DG reading.
- Tariff recharge.
- Overload setting.
- Overload protection upto 2 attempts.
- Relay ON/OFF
- Rechargeable.
- R, Y, B voltage
- R, Y, B current
- Frequency
- Power Factor
- kWh
- kVAh
- kVAh

## 1.2 Applications

- 3Phase Energy monitoring for domestic and industrial

## 2. Image of LoRa enabled Energy Meter



### 3. Specifications of Energy meter

Parameter	Range
Current range	3*(10-60) A
Voltage rating	3*240V
Meter constant	1600imp/kWh
Class	1
Type	AC Static 3Phase ,4Wire
Compliance	IS13779
Frequency	50Hz
Temperature	27°C

#### 4G Specification

Parameter	Range
Frequency Bands	LTE-TDD: B1/B3/B5/B8, LTE-FDD: B34/B38/B39/B40/B41 GSM/GPRS/EDGE: 900/1800 MHz
Modulation	QPSK/16QAM
RF Transmitting power	LTE power level: 3 (23dBm ± 2.7dB)
Interface	USB/ADC/UART/GPIO/I2C port with LTE Antenna
RF data rate	CAT 1 + GSM
RF Range	As per LTE st
Other Features	TCP/IP/IPV4, MQTT/MQTTs

## 4. Important Notice

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