

# ECL-ENS22-T4

## NB-IoT Terminal



ECL-ENS22-T4 builds a transparent communication platform between field devices via serial ports and remote servers or applications over cellular networks.

With the over the air (OTA) protocol, application software and firmware can be updated remotely. Therefore updates, upgrades and troubleshooting can be done remotely without the need to go to the field.

It has integrated hardware watchdog feature which protects the device against hardware and firmware crashes. Real-time clock feature can be used for timestamp applications.

AMI firmware is installed specially for AMI applications. Runs as a transparent device to transmit the queries of the central AMI software and simultaneously runs as a field device to read the meter and communicates bi-directionally with central AMI software.

### Physical Specifications

Size: 106 x 107 x 55 mm

Weight: ~300 grams

Tamper-proof, Sealable Terminal Cover with DIN Rail

### Environmental Specifications

-35 ... +75°C operating temperature

-40 ... +85°C storing temperature

### Power Input

55 ... 435 VAC operating voltage

6 KV impact resistance

### Wireless Features

Supports various bands over NBIOT Module

Bands supported (1800MHz), B5(850MHz), B8 (900MHz),

B20 (800MHz), B28 (700MHz)

Uplink Speed : 63 Kbps

Downlink Speed: 27 Kbps

Power Saving Mode

5G Security Features

SMA Antenna Connector



Easy use push-n-eject SIM card connector

### Serial Interfaces

1 x RS485 Interface

1 x RS232 Interface

300bps - 460kbps communication speed

7E1, 7O1, 8N1, 8E1, 8O1 frame

RS485 ADDC

### Other Inputs/Outputs

1 x 250 VAC 10A Relay Output (NO,NC)

4 x Dry Contacts

### Other Hardware Features

ARM Microprocessor(32-bit ARM® Cortex®-M4 120Mhz

1Mbyte Flash)

Real Time Clock (RTC)

Built In Flash Memory(4Mbyte)

Hardware watchdog

NB-IoT LED Status Indicator

Integrated UDP/IP4 support

Can send alerts to central server in case of power cut-off