

ECL-BC95-TI

NB-IoT Terminal



ECL-BC95-TI 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 AMR applications. Runs as a transparent device to transmit the queries of the central AMR software and simultaneously runs as a field device to read the meter and transmit data to central AMR software.

Physical Specifications

Size: 106 x 107 x 55 mm
Weight: ~300 grams
Sealable Terminal Cover

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 700Mhz, 800MHz, 850Mhz, 900Mhz
280mA @23dBm
Sensitivity:-129dBm±1dB
Uplink Speed : 15.625kbps
Downlink Speed: 24Kbps
Power Output : 23dBm
Sleep Mode Power Consumption: 10uA
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 250VAC 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