ECL-BG95M2-T8-MB

NB-IoT/CATM1/2G Terminal

ECL-BG95M2-T8-MB builds a transparent communication platform between field devices via wired m-bus interface and remote servers or applications over cellular networks.

With the over the air (OTA) protocol, application software and firmware can be updated remotely. 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.

Physical Specifications
Size: 106 x 107 x 55 mm
Weight: ~300 grams
IP54, Flame retardant (UL94V-0)
Sealable Terminal Cover
DIN Rail Mounting

Environmental Spesifications
-35 ... +75°C operating temperature
-40 ... +85°C storing temperature
Shelf Life 15 years

Power Input
3.6VDC operating voltage
Up to 10 years battery life-time depending on the use-case

Wireless Features
Cat M1: B1/B2/B3/B4/B5/B8/B12/B13/B14/B18/B19/B20/B25/B26/B27/B28/B66/B85
Cat NB2: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B28/B66/B71/B85
Cat M1: Max. 588Kbps (DL), Max. 1119Kbps (UL)
Cat NB2: Max. 127Kbps (DL), Max. 158.5Kbps (UL)
SMA Antenna Connector
1 x SIM card connectors under sealable cover

Wired M-Bus Interface
Consumption single slave 1.5mA
Current limitation protects against overload/short circuit
Cable length can be up to 10 km

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
IPv4, IPv6, UDP, CoAP, LwM2M, Non-IP, DTLS, TCP protocol stack
Can send alerts to central server in case of power cut-off
CE Certified