ECL-BG96-T10

Cat M1/Cat NB1/2G

GPS Terminal

ECL-BG96-T10 builds a transparent communication platform between field devices via serial ports and remote servers or applications over cellular networks. It supports LTE Cat M1/Cat NB1/EGPRS bands and 375 kbps uplink, 375 kbps downlink speed. It supports GPS, GLONASS, BeiDou/Compass, Galileo, QZSS.

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

Weight: ~400 grams
Sealable Tamper Proof Terminal Cover, DIN Rail, IP55

Environmental Spesifications

-35 ... +75°C operating temperature
-40 ... +85°C storing temperature

Power Input

55 ... 435 VAC operating voltage
Backup Battery
6 KV impact resistance

Wireless Features

LTE Cat M1/Cat NB1/EGPRS Support
LTE FDD: B1/B2/B3/B4/B5/B8/B12/B13/B18/
B19/B20/B25/B26/B28
LTE TDD: B39 (For CAT M1 only)
EGPRS: 850/900/1800/1900MHz
Sleep Mode Power Consumption: 10uA
Wireless M-Bus, IEEE 802.15.4g
SMA Antenna Connector

Wired Features

1xRS485 1xRS232
300bps - 460kbps communication speed

7E1, 7O1, 8N1, 8E1, 8O1 frame
RS485 ADDC

Other Features

ARM Microprocessor(32-bit ARM® Cortex®-M4 120Mhz
    1Mbyte Flash)
Real Time Clock (RTC)
Built In Flash Memory (8Mbyte)
GPS, GLONASS, BeiDou/Compass, Galileo, QZSS.
Hardware watchdog
Programmable LED Status Indicators
Easy use push-n-eject SIM card connector
TCP/UDP/PPP/FTP/FTPS/HTTP/HTTPS/NTP/PING/
/SMTP/SSL/MQTT/FILE support

Application Features

AES-256 Data Encryption
Push/Pull/Poll Comm. on programmable schedules
Push OTA Firmware & Configuration Upgrade
SNMP/CORBA fault monitoring
NTP, Multiple DNS, IPv4, IPv6
Event Log Records
Positioning
Can send alerts to central server in case of power cut-off