CT63 NG

Quad Band GSM/GPRS Terminal for M2M / IoT Applications

The CT63 NG is a compact industrial-grade M2M Terminal featuring the latest GSM/GPRS technology based on the Gemalto module BGS5.

The CT63 NG Terminal is the device of choice for system integrators who require a ready-to-use solution for their M2M applications and which can be deployed on a worldwide basis. The device supports key interfaces such as RS232, USB 2.0 as well as inputs/outputs, and provides also a runtime environment for Java-based applications.

With its low power consumption mode, the CT63 NG terminal is also suited for power-optimized applications, e.g. when the power source is a rechargeable battery powered by solar panels.
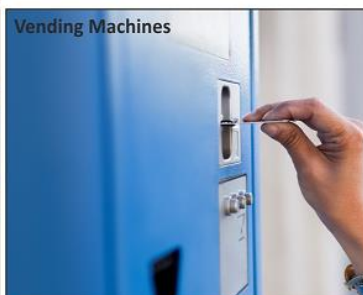
Key Benefits

- Support for RS232 and USB 2.0 to support connection to a wide range of external controller hardware
- Realize on-board applications using the integrated Java runtime environment
- Low power mode for battery driven applications
- Designed for industrial applications which require e.g. a wide operating temperature range

Key Features

- Quad band GSM/GPRS terminal
- AT command set from Gemalto
- Java runtime environment
- FOTA
- RS232 & USB 2.0 interfaces
- Low power consumption mode

Sample Applications

- Wireless interface for POS terminals and other vending machines
- Smart metering applications
- Intelligent Traffic Management applications

EFT/ POS and Vending

Security Applications

Electricity, Gas and Water

Vending Machines

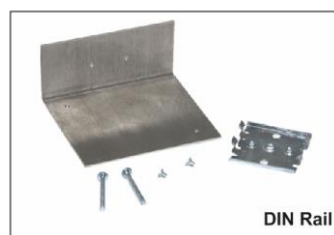eHealth Applications

Digital Signage

Wireless Features

- Module Name: BGS5
- GSM/GPRS Frequency Bands: 850 / 900 / 1800 / 1900 MHz
- GPRS Class: Class 12
- GPRS Features:
  - Full PBCCH support
  - Mobile Station Class B
  - Coding Scheme 1 – 4
- Output Power:
  - Class 4 (2W) for GSM850/GSM900
  - Class 1 (1W) for GSM1800/GSM1900
- CSD: Up to 9.6 kbps,
- V.110, RLP, non-transparent
- USSD
- SMS: Point-to-point MT and MO
- Text and PDU mode, Cell Broadcast

Hardware Features

- IP Protection: IP40
- Memory: 5 MB RAM / 10 MB Flash
- SIM Card Holder: 1x (1,8/3 Volt)
- SIM Chip Option [1]
- LEDs: 1x GSM + 2x Configurable
- Realtime Clock with alarm functionality
- Mounting: Screws; DIN Rail (accessory)
- Type Approvals: CE

1) Optional Features: Please contact us to discuss the development of customized terminals per your requirements.
2) Please view customer communication on our website re. USB2.0 feature
3) Measurement averaged (including peaks) over a minimum of 1 minute measurement interval.

Software

- AT Command Set: Hayes Compliant, TS 27.005, 27.007 and Gemalto custom AT
- Programming Language: Java profile IMP-NG & CLDC 1.1 HI
- Firmware Update: Serial / USB / FOTA
- SIM Application Toolkit: Class 3
- TCP/IP Stack: TCP, UDP, ICMP, HTTP, DNS, FTP, SMTP, POP3, TLS
- Jamming Detection

Connectors

- D-Sub (9-pin): 1x Female (RS232)
- USB: 1x Mini-USB (USB 2.0 [2])
- RJ11: 1x (Power + 1 Analogue Input + 1 Output)
- FME: 1x Male (Antenna)

Power Management

- Voltage Range: 5V - 32V
- Input Current (Max): 110 mA @12V; 60 mA @24V
- Power Consumption (Idle Mode): 10,4 mA [3] (@12V)
- Power Consumption (Low Power Mode): 1,5 mA [3] (@12V)

Hardware Characteristics

- Operating Temperature: -40°C to +80°C
- Dimensions: 77x66x26 mm
- Weight: 91g

Power Supply

RS232 Cable

DIN Rail

Stub Antenna

Rectangular Antenna

Roof Antenna

Magnetic Antenna