CT63 Java

Java programmable Quad Band GSM/GPRS terminal for advanced industrial M2M applications

The CT63 Java is a self-contained unit featuring the latest GSM/GPRS technology from Cinterion including features like low power mode, and which can be extended with intelligent data processing capabilities using the Java programming language.

As a quad-band GSM terminal operating in all defined GSM frequency bands, it can be deployed on a worldwide basis.

The CT63 Java Terminal is an excellent product for system integrators who focus on application development using a programmable GPRS modem with I/O functionality and standard connectors.

The CT63 Java can host customer-specific Java programs inside the module.

With its low power consumption mode, the terminal is also suited for applications that require minimization of power consumption, e.g. when the power source is a rechargeable battery powered by solar panels.

Key Benefits

- Digital / analogue I/Os for complex scenarios
- Low power consumption mode
- Wide operating temperature range

Key Features

- Quad band GSM terminal
- Cinterion AT command set
- I/Os: 4 digital in; 1 analogue in & out
- RS232 Interface
- Low power consumption mode

Sample applications

- Implement protocol conversion tasks within the modem.
- Count events and transmit count values at regular intervals
- Remote monitoring of rechargeable or solar battery powered devices.

GSM / GPRS

- GSM / GPRS Frequency Band: Quad Band (850 / 900 / 1800 / 1900 MHz)
- GPRS Class: Class 12
- Coding schemes CS 1-4
- Mobile station class B
- Output power: Class 4 (+33dBm ±2dB) for GSM 850 / 900
- Output power: Class 1 (+30dBm ±2dB) for GSM 1800 / 1900
- Full PBCCH support

Mobile Network Features

- CSD: 14.4 kbps, V.110
- Fax Service: Fax Group 3, Class 1 & 2
- SIM Application Toolkit: Rel. 99, letter class "b", "c" and "e"

SMS Features

- SMS text, PDU mode
- PTP MO / MT SMS
- SMS cell broadcast

TCP/IP Stack

- TCP/IP stack access via AT commands and transparent TCP service
- Internet services: TCP, UDP, HTTP, FTP, SMTP, POP3, Ping
- Secure data transmission with HTTPS, SSL and PKI
- TLS for IP over AT

Special features

- Easy Scan: Informal Network Scan
- Real-time clock
- Temperature Management
- Tunneling mode
- RLS Monitoring (Jamming detection)

Programming Language

- Java (profile IMP-NG & CLDC 1.1)
- Multi-threading programming and program execution

Software

- AT Command Support: Hayes, TS 27.007 and 27.005, Cinterion custom AT
- Firmware Update: USB/Serial
- Multiplex Driver Microsoft® Windows and Linux
- RIL driver for Microsoft® Windows CE™ based devices
- Serial interface modem for Microsoft® Windows 7™/XP™/Vista™

Inputs / Outputs

- Analog Inputs: 1
- Digital Inputs: 4
- Outputs: 1

Interfaces

- RS232 Interface: D-Sub (9-pin)
- USB connector for 4 digital inputs
- Mini RJ11 for 1 analogue input and output
- Antenna: FME
- Robust 1,8/3 Volt SIM Card Holder
- LEDs: 1 GSM + 2 Configurable

Electrical Characteristics

- Voltage Range: 5V - 32V
- Standby (@ 12V): ~12 mA (*)
- Low Power Mode (@ 12V): ~1 mA (*)

Hardware Characteristics

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

Certificates

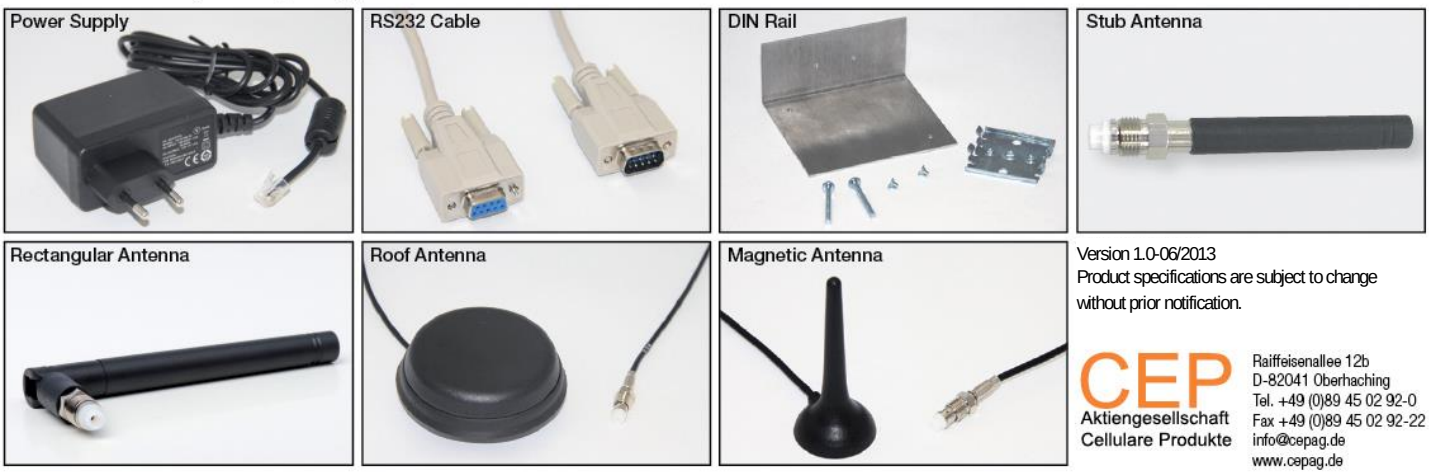
- CE
- e1

Optional Features

We can develop customized terminals according to your specialized requirements. Please contact your local sales representative or our headquarters to discuss your requirements.

(*) Measurement (including peaks) averaged over a 1 min interval.

Accessories (exemplary)



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Product specifications are subject to change without prior notification.

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