

2G Terminals



CINTERION
a Gemalto company

MC52i / MC55i Terminals GPRS connectivity in a box



Terminal



Quad-Band 2G



TCP/IP



GPRS
Class 10



FAX Functionality



e-mark



RIL Driver



Full Voice
Support



Extended
Temperature
Range



Following up the successful TC35i/MC35i Terminals, the new generation of GPRS Terminals is available. Based on the powerful MC55i wireless module platform the improved Terminals offer additional functionality while remaining compatible with its predecessors.

MC55i Terminal packs a Quad-Band GSM/GPRS baseband with TCP/IP connectivity based on GPRS Class 10 data transmission into a compact plug-and-play housing. The robust housing includes a range of common interfaces as well as an integrated SIM cardholder which make the new generation to an

all-in-one solution enabling voice, data, SMS and fax communication. The new generation is available as Quad-Band with GPRS Class 10 functionality (MC55iT) and as a Dual-Band variant with GPRS Class 8 functionality (MC52iT). With an extended temperature range, the reliable terminals can be used in a wide range of M2M business fields such as metering, remote maintenance, traffic systems, transportation and logistics, and security.

Like all Cinterion products, MC52iT / MC55iT come with full type approval (FTA) and are certified according to automotive e-mark as well as by the largest carriers worldwide.

MC52i / MC55i Terminals

GPRS connectivity in a box



General features

- GSM Quad-Band 850 / 900 / 1800 / 1900 MHz (MC55iT)
- GSM Dual-Band 900 / 1800 MHz (MC52iT)
- 3GPP Release 98
- GPRS multi-slot Class 10/8
- Compliant to GSM phase 2/2+
- Output power:
 - Class 4 (2W) for GSM850
 - Class 4 (2W) for GSM900
 - Class 1 (1W) for GSM1800
 - Class 1 (1W) for GSM1900
- SIM Application Toolkit
- Control via AT commands (Hayes, 3GPP TS 27.007 and 27.005)
- TCP / IP stack access via AT commands
- Internet Services TCP server/ client, UDP, ICMP, DNS, HTTP, FTP, SMTP, POP3
- Supply voltage range: 8 – 30 V
- Operating temperature: -30 °C to +75 °C
- Dimensions: 65 x 74 x 33 mm
- Weight: 110 g
- WEEE
- RoHS and EuP compliant

Specifications

- GPRS Class 10/8,
 - DL: max. 85.6 kbps
 - UL: max. 42.8 kbps (MC55iT)
 - UL: max. 21.4 kbps (MC52iT)
- Mobile Station Class B
- CSD data transmission up to 14.4 kbps, V.110, non-transparent
- USSD support
- SMS text and PDU mode, cell broadcast
- Fax group 3, Class 1 and Class 2
- High quality voice support
- Handsfree operation
- FR, HR, EFR and AMR speech codec support
- Integrated TTY modem

Interfaces

- Antenna connector FME (male)
- Plug-in power supply connector (6-pole Western jack)
- Handset analog audio interface (4-pole Western jack)
- Mini-SIM card reader, 1.8 V and 3.0 V
- V.24 / V.28 RS-232 interface (D-sub 9-pole female socket)
- Operating status LED

Special features

- Serial interface modem driver for Microsoft® Windows 7™, Windows XP™ and Windows Vista™ (MC55iT)
- Firmware update via serial interface
- Real time clock with alarm functionality
- RIL driver Windows Mobile 6

Approvals

- CE, R&TTE, GCF, FCC, PTCRB, IC, e-mark
- Local approvals and network operator certifications

For detailed specification please see Hardware Interface Description.

TCP/IP

The integrated TCP/IP stack enables the application to send and receive packed data. This means there is no additional protocol on the microcontroller of the application required to ensure point-to-point communication based on AT commands within the global data network. Both terminals also support transparent mode that is more efficient for small data packets.

GPRS Class 10

General Packet Radio Services (GPRS) enhancing 2G terminals to ensure “always on” communication at high speed. MC55iT supports GPRS Class 10 with a maximum data rate of 86 kbps in download and 42.8 kbps in upload.



CINTERION Global Support

Local engineers, a competent helpdesk, a dedicated team of R&D specialists and an advanced development center are the hallmarks of our leading support offer.

The CINTERION support includes:

- Personal design-in consulting for hardware and software
- Extensive RF test capabilities
- GCF/PTCRB conform pretests to validate approval readiness
- Guidelines for local approvals and acceptances
- Regular training workshops

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Further information about our products and services is also accessible via www.cinterion.com

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