

TC65 Terminal

Plug into the wireless M2M market

The TC65 Terminal sets unprecedented standards in the field of machine-to-machine communication. Based on the advanced TC65 module the intelligent Terminal version combines the most powerful and universally accepted Java™ open software platform with a wide range of industrial interfaces, to produce a smart plug & play solution in a growing M2M market.

Having the latest Information Mobile Profile NG embedded the TC65 terminal offers the opportunity to control M2M applications by using internal resources such as a powerful processor as well as the ability to simplify over-the-air software updates (OTA) for reliable e-maintenance of applications. Furthermore the future proved standard allows secure data transmission using https and PKI encryption. Last but not least Quad-Band technology allows applications to be used globally and the software development kit included is license free.

A wide range of industrial interfaces and the plug & play functionality included allow quick and easy implementation, reduces your costs significantly and lowers the entry barriers to a wide number of business fields such as: fleet management, security, vending machines or remote control. With its extended temperature range it is also the perfect stand-alone device for sophisticated M2M solutions.

Thanks to its full type approval (FTA), there is no worry about obtaining appropriate certification anymore – the TC65 comes with approvals from major mobile network carriers across the globe, including those from US operators.



QUAD-BAND



GPRS CLASS 12



JAVA IMP-NG



POWERFUL PROCESSOR/
LARGE MEMORY PROFILE



TCP/IP CONNECTIVITY



INDUSTRIAL INTERFACES



FAX FUNCTIONALITY



Not original size



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General features:

- Quad-Band GSM 850/900/1800/1900 MHz
- GPRS multi-slot class 12
- GSM release 99
- Output power:
 - Class 4 (2 W) for EGSM850
 - Class 4 (2 W) for EGSM900
 - Class 1 (1 W) for GSM1800
 - Class 1 (1 W) for GSM1800
- Control via AT commands (Hayes 3GPP TS 27.007 and 27.005)
- SIM Application Toolkit (release 99)
- TCP/IP stack access via AT commands
- Internet Services: TCP, UDP, HTTP, FTP, SMTP, POP3
- Supply voltage range: 8 ... 30 V
- Power consumption:
 - Power down 50 μ A
 - Sleep mode (registered DRX =6) 3.0 mA
 - Speech mode (average) 300 mA
 - GPRS class 12 (average) 600 mA
- Temperature range
 - Normal Operation: -30°C to +70°C
 - Restricted Operation: -30°C to +75°C
 - Switch off: +80°C
 - Storage: -40°C to +85°C
- Dimensions: 90 x 130 x 38 mm
- Weight: < 190 g

Specification for GPRS data transmission:

- GPRS class 12
- Mobile station class B
- PBCCH support
- Coding schemes CS 1-4

Specification for CSD data transmission:

- Up to 14.4 kbit/s
- V.110
- Non-transparent mode
- USSD support

Specification for SMS:

- Point-to-point MO and MT
- SMS cell broadcast
- Text and PDU mode

Specification for fax:

- Group 3, class 1

Specification for voice:

- Triple-rate codec for HR, FR, and EFR
- Adaptive multi-rate AMR
- Basic hands-free operation
- Echo cancellation
- Noise reduction

Open application resources:

- ARM© Core, Blackfin© DSP
- Memory: 400 KB (RAM) and 1.7 MB (Flash)
- Improved power-saving modes

Java™ features:

- CLDC 1.1 HI
- J2ME™ profile IMP-NG
- Secure data transmission with HTTPS and PKI

Over-the-air update:

- Application SW: OTAP
- Firmware: FOTA (OMA compliant)

Interfaces:

- SMA 50 ohm antenna connector
- 24 pin Micro-N-Lok connector
 - I²C bus and SPI bus
 - 2 x analog in (ADC)
 - VDD (2.9 V)
 - Multiple GPIOs
- 9 pin sub-D connector for serial interfaces (ITU-T V.24 protocol)
- Operating status LED
- ON/OFF button
- SIM card interface 3 V, 1.8 V
- Plug-in power supply
- Handset audio interface

Approvals:

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

More about Siemens Wireless Modules at: www.siemens.com/wm

Global thinking, local understanding.



U.K. ← Football → USA

Here, there and everywhere

Global but local - Siemens lives up to this motto! Not only are we present locally but we are also able to open up amazing global business perspectives for you! Find the details of your local Siemens contact partner here: www.siemens.com/wm-contact

Technical Support

Our application engineers support you from the design-in phase over the integration of the module into the application to the certification process.

We protect your business

Profit from our strong Intellectual Property Rights position (IPR) – guarded by our legal professionalism you secure the fruits of your business effort.

Our technology portfolio also covers → +++ Java™ Open Platform +++ EDGE +++ GPS +++