SIEMENS

TC65 Terminal – Succeed with Java™

The TC65 Terminal with Java™ technology is the missing link between M2M applications and the world of IP-based services involving GSM/GPRS communication. Having the latest version of IMP 2.0 embedded in it, the TC65 Terminal offers a complete software development platform with which to create licence-free, hardware-independent applications. The new standard provides control of M2M applications and enables user-friendly over-the-air software updates (OTA) for reliable e-maintenance and secure data transmission using https and PKI encryption. The variety of industrial interfaces and the plug & play functionality included allow quick and easy implementation. With its extended temperature range as well, it is the perfect stand-alone device for sophisticated M2M solutions. The TC65 Terminal is lead-free, meeting the European requirement on limiting the use of hazardous substances in electrical and electronic devices (RoHS).

Wireless Modules
Benefits and hard facts

General features
- Quad-band: 850/900/1800/1900 MHz
- GSM release 99
- RF Output power:
- Class 4 ((2 W) for EGSM 850 and 900
- Class 1 ((1 W) for GSM 1800 and 1900
- AT commands Hayes GSM 07.05 and GSM 07.07
- SIM application toolkit release 99
- Supply voltage range: + 8V ... + 30V DC
- Power save mode
- Dimensions:130 x 90 x 38 mm
- Weight < 190 g
- Ambient temp. range:
- 30 to +65 °C
- Automatic switch off at +75 °C
- Storage temp. range:
- 40°C ...+ 85°C

Open application platform features
- ARM7 processor
- Memory: 400 kbytes (RAM) and 1.7 Mbytes (Flash)
- Improved power-saving modes
- TCP/IP stack access via AT commands

Java ™features
- CLDC 1.1 Hl
- J2ME™ with IMP 2.0
- Secure data transmission with HTTPS and PKI
- Support of TCP, UDP, HTTP, FTP, SMTP, POP3
- Application SW update over-the-air (OTAP)

Specification for GPRS data transmission
- Multislot class 12
- PBCCH support
- Coding scheme 1 to 4
- Class B mobile station

Specification for CSD data transmission
- Up to 14.4 kbit/s
- V.110
- Non-transparent mode
- USSD support

Specification for fax
- Group 3,class 1

Specification for voice
- GSM-FR, GSM-HR, GSM-EFR and AMR speech codecs supported
- Adaptive multirate AMR
- Basic hands-free operation
- Echo cancellation
- Noise reduction

Specification for SMS
- Via GSM or GPRS
- Point-to-point MO and MT
- Text and PDU mode
- SMS cell broadcast

Approvals
- R&TTE, FCC, UL, IC, GCF, PTCRB, E1 mark
- Local approvals and network operator certifications

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

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