



Sony Ericsson

GT47/GT48 GSM/GPRS Terminal

Features:



*Self
Contained*



Dual Band



*GSM/GPRS
Class 8*



*2x UART
Connectivity*
Available through embedded applications



*Integrated
TCP/IP Stack*



*Embedded
Applications*



GSM Ph 2+
FCC/PTCRB

*Fully Type
Approved*



Benefits

- Short time to market due to minimal hardware design
- Wireless GPRS Internet access
- Reduce cost of testing business concepts
- Minimize total solution cost by embedding application directly onto GT47/GT48

Sony Ericsson's GT47/GT48 GSM/GPRS Terminal is an intelligent, multi-purpose device that encapsulates everything for customers seeking to monitor, control and acquire operational data from machines, systems and equipment. The hardware's compact and self-contained design boasts multiple input/output options that make the unit ideal for monitoring facilities or areas with low I/O point counts.

Applications can include the monitoring and control of any electronically controlled system, industrial processes, electronic payment terminals and meter readings in areas such as gas, water, electricity and power networks. They also extend into service and maintenance in areas such as lifts, escalators, vending machines and point-of-sale equipment.

The GT47/GT48 can be configured to independently perform control and alarming functions using a built-in scripting engine, minimizing the need for extra components. This means the GT47/GT48 can be programmed to communicate with the connected asset intuitively, therefore enabling users to add metering, and other local control functions as required. The outcome is a more customized, efficient, and cost-effective M2M application.

GT47/GT48 GSM/GPRS Terminal

Product Features

- Dual Band GSM/GPRS Terminal (EGSM 900/1800MHz [GT47] or GSM 850/1900MHz [GT48])
- Hosting services for embedded applications
- Compliant with 3GPP GSM Phase 2+ (GCF-CC v3.8.1 [GT47]/NAPRD v.2.7.2 [GT48] standard) (Small MS)
- Output power:
 - Class 4 (2W) @ 850/900MHz
 - Class 1 (1W) @ 1800/1900MHz
- Power supply:
 - 5–32VDC
- Overall dimensions (excluding connectors): 77 x 67 x 26mm
- Operating Temperature:
 - -30°C to +75°C
- Storage Temperature:
 - -30°C to +85°C
- Full Specification:
 - -10°C to +55°C
- Weight: < 110g

Interfaces

- Data: 15 way High Density D-sub female
- Power and Extended I/Os: 5 – 32VDC (RJ12)
- Audio 4-wire Handset Interface (RJ9)
- Antenna: 50Ω (FME male)
- SIM card reader: 3V/5V interface with SIM detection
- LED interface
- 4.8V power output (via HD15)

Data I/Os

HD15

- 1 x full RS232 – (9-signal)
- 1 x ADC/digital input
- 2 x digital inputs*
- 2 x digital outputs*
- 1 x 4.8VDC output (<75mA)†

* Reconfigurable as 1 x RS232 i/f, 4-signal, with CTS/RTS

† Reconfigurable as 1 x digital output

RJ12

- 1 x digital output (switch to GND)
- 1 x digital output (switch to VIN)
- 1 x digital input

Data Features

- CSD asynchronous – non transparent up to 9.6kbps
- HSCSD (2+1), up to 19.2kbps
- MS Class B, GPRS Class 8, up to 85.6kbps
 - P Channel Support
 - Coding schemes CS1 – CS4
- GSM 07.10 Multiplexing Protocol

Short Message Service (SMS) Features

- Text and PDU
- MT/MO & CBM
- Cell Broadcast
- Concatenation – up to 6 SMS

Voice Features

- Telephony
- Emergency calls
- Full Rate, Enhanced Full Rate and Half Rate (FR/EFR/HR)
- Dual Tone Multi Frequency function (DTMF)
- GT48 supports AMR

Fax Features

- Fax Group 3, Class 1 & 2

Embedded Applications

- Runs one script at a time
- Intrinsic functions: to support applications such as metering, vending, security, telematics, fixed cellular terminal
- Extended/configurable I/Os
- Our M2mpower software facilitates the development of cost effective wireless M2M applications

TCP/IP

- AT Command access to TCP/IP stack
- Intrinsic functions enable access when using embedded applications
- Universal Datagram Protocol (UDP)
- Dedicated controller mode

GSM Supplementary Services

- Call forwarding
- Call hold, waiting and multiparty
- Calling/called number identification
- Advice of charge
- USSD
- Alternate line service
- Customer service profile
- Preferred networks
- Operator selection
- Network registration
- Call barring
- Call transfer

Other Features

- Controller mode
- ME + SIM phone book management – read/write/find, call screening, groups
- SIM Application Toolkit Class 2
- Real Time Clock
- Software upgradeable
- Audio control
- Fixed dialling number
- UCS2 16 bit data supported
- GPS interoperability
- Commercially available accessories



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