

UMTS | HSDPA 7.2

GT863-3GG Terminal



0101 0101	Telit Unified AT Command Set
	12 Channel GPS Receiver
	Quad Band GPRS
	Tri Band UMTS/HSDPA 7.2
	Quad Band Edge
	RoHS Compliant
	SIM Access Profile
	Embedded FTP and SMTP Client
	Extended RF Sensitivity
	Serial Port Multiplexer (GSM 7.10)
	Embedded TCP/IP Stack



The new GT863-3GG terminal is a complete enclosed modem solution for wireless m2m applications based on the triple band 850/1900/2100 UMTS/HSDPA UC864-G core engine with integrated SIM holder, as well as additional features.

The GT863-3GG is also fully backward compatible to existing EDGE and GSM/GPRS networks through accomplished quad-band radios. Offering extended operating temperature, integrated TCP/IP stack, direct control by standard serial RS-232 interface or USB 2.0 interface, and with a broad supply voltage range (5-30 DC), the GT863-3GG terminal is a complete stand-alone solution for m2m applications that require high speed data exchange and worldwide global coverage.

The GT863-3GG new generation of Telit 3.5G terminals is provided with Windows and Linux drivers that significantly ease the integration in existing applications.

All Telit modules, support Over-the-Air firmware update by means Premium FOTA Management. By embedding RedBend's vCurrent® agent, a proven and battle-tested technology powering hundreds of millions of cellular handsets world-wide Telit is able to update its products by transmitting only a delta file, which represents the difference between one firmware version and another.

As a part of Telit corporate policy of environmental protection, all products comply to the RoHS (Restriction of Hazardous Substances) directive of the European Union (EU Directive 2002/95/EG).

Product features

- HSDPA 7.2 Mbps
- UMTS/HSDPA (WCDMA/FDD) 850/1900/2100 MHz
- Quad-band EGSM 850 / 900 / 1800 / 1900
- GPRS multi-slot class 12
- EDGE multi-slot class 12
- Output power
 - Class 4 (2 W, 33 dBm) @ GSM 850 / 900
 - Class 1 (1 W, 30 dBm) @ GSM 1800 / 1900
 - Class 3 (0.25 W, 24 dBm) @ UMTS
 - Class E2 (0.5 W, 27 dBm) @ EDGE 850 / 900
 - Class E2 (0.4 W, 26 dBm) @ EDGE 1800 / 1900
- Control via AT commands according to GSM 07.05, 07.07 and Telit enhancements
- SIM access profile
- Supply voltage range: 5-30 V DC
- TCP/IP stack access via AT commands
- Sensitivity:
 - 107 dBm (typ.) @ 850 / 900 MHz
 - 106 dBm (typ.) @ 1800 / 1900 MHz
 - 108.2 dBm (typ.) @ 850 / 1900 / 2100 MHz
- Dimensions: 83 x 64 x 33 mm
- Weight: 180 grams
- Temperature range
 - 20°C to +65°C (Operational)
 - 40°C to +85°C (Storage temperature)
- RoHS compliant

GT 863-3GG

Terminal



Front



GPS receiver

- GPS power consumption:
Operating current: 100 mA
plus 20 mA for the external antenna
- High sensitivity for indoor reception,
up to -157 dBm (with active antenna)
- Accuracy < 3 m
- Extremely fast TTFF's at low signal levels
- Hot start autonomous < 1 s
- Warm start autonomous < 32 s
- Cold start autonomous < 40 s
- Supports 12-channel GPS,
L1 1575.42 MHz
- GPS NMEA 0183 output format
- Date WGS-84
- Dedicated GPS AT commands
- Low power consumption

Interfaces

- Sub-D 9-pin RS-232 connector
- Power: 5 to 30 VDC
- 6-pole RJ11 plug (female)
- 3 GPIOs, 1 ADC
- SMA connector (female) for GSM antenna
- SMA connector (female) for GPS antenna
- SIM card holder: 1.8 V / 3 V interface
- Mini USB 2.0 Interface

Data

- HSDPA
 - Downlink up to 7.2 Mbps
 - Uplink up to 384 kbps
- WCDMA Downlink/uplink up to 384 kbps
- EDGE
 - Downlink up to 236.8 kbps
 - Uplink up to 118 kbps
- GPRS
 - Downlink up to 85.6 kbps
 - Uplink up to 42.8 kbps
 - PBCCH support
- CSD
 - Downlink/uplink up to 14.4 kbps
- Available modes of operation
 - AT commands on UART & data on USB
 - AT commands on USB & data on UART

Approvals

- Fully type approved conforming with R&TTE directive
- CE

SMS

- Point-to-point mobile originated and mobile terminated SMS
- Concatenated SMS supported
- SMS cell broadcast
- Text and PDU mode

Fax

- Group 3, class 1

Additional features

- SIM phonebook
- Fixed dialing number (FDN)
- Real-time clock
- 2x LED for status indication
- IRA, UCS2 and GSM Defaults
- Jamming detection & report
- Embedded TCP/IP stack, including TCP, IP, UDP, SMTP and FTP protocols
- TFMS (Telit Firmware Management Services) Over-the-Air update

Telit EASY features

- EASY SCAN ® automatic scan over GSM frequencies (with or without SIM card)

Order-No.

Please contact your Telit representative for order codes and all further information



Telit Communications S.p.A.
Via Stazione di Prosecco, 5/B
I-34010 Sgonico (Trieste), Italy
Tel +39 040 4192 200
Fax +39 040 4192 289
E-Mail: EMEA@telit.com

Telit Wireless Solutions Inc.
3131 RDU Center Drive, Suite 135
Morrisville, NC 27560, USA
Tel +1 888 846 9773 or +1 919 439 7977
Fax +1 888 846 9774 or +1 919 840 0337
E-Mail: NORTHAMERICA@telit.com

Telit Wireless Solutions Inc.
Rua Cunha Gago, 700 - cj 81, Pinheiros
São Paulo - SP, 05421001, Brazil
Tel +55 11 2679 4654
Fax +55 11 2679 4654
E-Mail: LATINAMERICA@telit.com

Telit Wireless Solutions Co., Ltd.
12th Fl, Shinyoung Securities Bld.
34-12, Yeouido-dong, Yeongdeungpo-gu
Seoul, 150-884, Korea
Tel. +82 2 368 4600
Fax +82 2 368 4606
E-Mail: APAC@telit.com

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