Telit wireless solutions

UMTS | HSDPA 7.2

GT 863-3GG
Terminal

QUALITY
INVESTMENT PROTECTION
BUSINESS SCALABLE
EASE OF INTEGRATION

0101 0101	Telit Unified AT Command Set
	12 Channel GPS Receiver
≣4 GPR	Quad Band GPRS
≣3 UHD	Tri Band UMTS|HSDPA 7.2
≣4 EDG	Quad Band Edge
	RoHS Compliant
SIM	SIM Access Profile
	Embedded FTP and SMTP Client
	Extended RF Sensitivity
	Serial Port Multiplexer (GSM 7.10)
	Embedded TCP/IP Stack

TELIT INFINITA SERVICES

FOTA	Premium FOTA Management

The new GT863-3GG terminal is a complete encased 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 significally 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

Making machines talk.®

GT 863-3GG
Terminal

Front

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Distributed by:

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 GSMDefaults
- Jamming detection & report
- Embedded TCP/IP stack, including TCP,
  IP, UD P, 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

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