

GL865T-DUAL

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GSM/GPRS Terminal



Description

The GL865T-DUAL terminal is a complete encased modem solution which combines the access to digital communication services in GSM and GPRS networks.

GL865T-DUAL is the new generation based on the dual-band and RoHS compliant GL865 core engine incorporating additional and new features.

The GL865T-DUAL featuring the embedded Python™ script interpreter provides the possibility for running customer programs inside the modem, thus making the terminal a complete self-contained application platform for customer solutions. Programmable I/O port, RS232 port and Serial Debug Port can be used for monitoring external signals, connecting sensors, and switching external devices. The GL865T-DUAL offers jamming detection functionality allowing the unit to sense attempts to disrupt the GSM communication by interference with the GSM signal.

GL865T-DUAL offers extended operating temperature, integrated TCP/IP stack, direct control by standard serial RS-232 interface and with a broad supply voltage range (5-32 VDC - Min1.2A), the GL865T-DUAL terminal is a complete stand alone solution for m2m applications.

GL865T-DUAL, supports 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 is able to update its products by transmitting only a delta file, which represents the difference between one firmware version and another.

Specifications - Mechanical

- Dimensions: 85 x 70 x 33 mm,
- Weight: 140 grams.

Key Features

- Dual-band EGSM 900 / 1800 MHz,
- Embedded Python Version 1.5.2 ,
- Serial Debug Port (Also 3.0V Voltage Output),
- RS232 interface (DB9-Female),
- Analog Audio Support (2.5mm jack, Mono-Mic & Mono-Ear),

- 2 Digital Inputs, 2 Digital Outputs and 2 ADC Connections on GPIO socket.

Product Features

- Supported bands
 - 2 Bands GSM / GPRS : 900 / 1800 MHz
- SIM Access Profile,
- Quad Band GPRS and EDGE class 33,
- Control via AT commands,
- Serial port multiplexer 3GPP TS27.010,
- SIM application Tool Kits 3GPP TS

- Built in UDP/TCP/FTP/SMTP stack,
- Extended temperature range:
 - 40°C to +85°C (Operational),
- Status and Power Leds.

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Interfaces

- GPIO Socket (2 outputs, 2 inputs, 2 ADC)
- D-type 9 pin RS-232 connector,
- Serial Debug Port (Also 3.0V Voltage Output),
- SMA female, 50 Ohm RF connector,
- 2.5mm jack (Mono Mic, Mono Ear),
- Power Socket (PWR, GND, RST),
- On board SIM card holder(Push-Push Type),
- Optional WatchDog Timer with MCU (PIC12F675) controller.

Circuit switched data transmission

- Asynchronous transparent circuit switched data (CSD) up to 14.4 Kbps
- Asynchronous non-transparent CSD up to 9.6 Kbps
- V.110

GPRS data

- GPRS class 10
- Mobile station class B
- Coding scheme 1 to 4
- PBCCH support

Fax

- Group 3, class 1

SMS

- Point-to-point mobile originated and mobile terminated SMS,
- Concatenated SMS support,
- SMS cell broadcast,
- Text and PDU mode,
- SMS Over GPRS.

Electrical

- Input Voltage Level →
 - 9 -32VDC @ 1.2 A min
- Output power →
 - Class 4 (2 W) @ 900 MHz
 - Class 1 (1 W@ 1800 MHz)
- Sensitivity →
 - -108 dBm @ 900 MHz
 - -107 dBm @ 1800 MHz

Additional features

- SIM phonebook
- Fixed dialing number (FDN)
- Real-time clock
- Alarm management
- IRA character set
- Jamming detection & report
- Embedded TCP/IP stack, including TCP, IP, UDP, SMTP and FTP protocols
- TFMS (Telit Firmware Management Services) Over-the-Air update
- Remote AT Commands
- Event Monitor

Python* application resources

- Python* script interpreter (module takes the application code directly in the Python* language)



- Memory: 1.9 MB of NV memory for the user scripts and 1.2 MB RAM for the Python* engine usage

- Over-the-air application SW update
- IIC Bus and SPI Bus controlled in Python*