

EZ10-GPRS

Terminal

EZ10-PCS WITH PYG OPTION

Terminal



Embedded
TCP/IP Stack



GPRS Class 10



Embedded
FTP
and SMTP Client



PYTHON*
Script Interpreter



On Board
SIM Holder

The Telit EZ10 terminal is the complete modem solution for wireless m2m applications.

Based on the GM862 core engine, it is available as GSM 900/1800 dual-band (EZ10-GPRS) or as PCS GSM 900/1800/1900 tri-band version with integrated PYTHON script interpreter (EZ10-PCS with PYG option).

The EZ10-PCS with Python* offers as an option the possibility to run customer programs inside the modem, thus making the terminal a complete self-contained hardware for individual customer solutions. Programmable I/O ports and the IIC-Bus can be used to detect external signals, connect sensors and to switch external devices.

The EZ10 offers all relevant voice and data services over the GSM/GPRS networks. As all Telit modules, the EZ10 offers the Jamming Detection functionality which allows the unit to detect attempts to discontinue the GSM communication by interfering with the GSM signal.

Directly controlled by a standard serial RS-232 interface and offering a broad supply voltage range (9-24 V DC), the EZ10 is a universal solution for all low-volume m2m and mobile data applications.

Product Features

- Dual-band 900 / 1800 MHz (EZ10-GPRS)
- 3-Band 900 / 1800 / 1900 MHz (EZ10-PCS with PYG Option)
- Output Power
 - Class 4 (2W) @ 850 / 900 MHz
 - Class 1 (1W) @ 1800 / 1900 MHz
- Control via AT commands according to GSM 07.05, 07.07 and proprietary Telit.
- Supply Voltage Range: 9-24 V DC
- TCP/IP stack access via AT commands
- Power Consumption (typical values)
 - power off: 26 uA
 - Idle (registered, power saving): < 8 mA
 - Dedicated mode (max): 350 mA
 - GPRS cl.10 (max): < 700 mA
- Sensitivity:
 - 107 dBm (typ.) @ 850 / 900 MHz
 - 106 dBm (typ.) @ 1800 / 1900 MHz
- Dimensions: 107 x 64 x 33 mm
- Weight: 200 gr.
- Temp. range: -20° / +70° C

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Telit wireless solutions

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 383
E-Mail: modules@telit.com
www.telit.com

Interfaces

- 4 I/O General Purpose I/O or IIC Bus (EZ10-PCS only)
- Analog Audio (EZ10-GPRS only)
- D-Type 9 pin connector for RS-232 communication
Baud rate from 300 to 115.200 bps
Autobauding from 2.400 to 38.400 bps
Short Circuit (to ground) protection on all outputs. ITU-T V.24 Serial Link
- SMA female, 50 ohm RF connector
- RJ11 / 6 pin for analog:
 - Audio input/output (EZ10-GPRS only)
 - GPIOs (EZ10-PCS with PYG Option only)
- Power Connector with 4 pin
Input power = 9 -24 VDC @ 1A max
- On board SIM holder, 3V with real time detection

Audio

- Telephony, Emergency
- Half rate, Full rate, Enhanced Full rate and Adaptive Multi Rate voice codecs (HR, FR, EFR)
- Superior echo cancellation & Noise Reduction (EZ10-GPRS only)
- Handset & Hands-free operations (EZ10-GPRS only)
- DTMF

Approvals

- Fully type approved conforming with R&TTE directive

SMS

- Point-to-Point mobile originated and mobile terminated SMS
- Concatenated SMS supported
- SMS Cell Broadcast
- Text and PDU mode

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 8 (EZ10-GPRS)
- GPRS class 10 (EZ10-PCS with PYG Option)
- Mobile station class B
- Coding Scheme 1 to 4
- PBCCH support

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Fax

- Group 3, Class 1

GSM Supplementary

- Call Forwarding
- Call Barring
- Call Waiting & Call Hold
- Advice of Charge
- Calling Line Identification Presentation (CLIP)
- Calling Line Identification Restriction (CLIR)
- Unstructured supplementary Services Mobile Originated Data (USSD)
- Closed User Group

Additional Features

- SIM Phonebook
- Fixed Dialling Number (FDN)
- Real Time Clock
- Alarm Management (EZ10-PCS with PYG Option only)
- Buzzer Management (EZ10-PCS with PYG Option only)
- Status LED support
- IRA character set
- Jamming Detection & Report
- Embedded TCP/IP stack, including TCP, IP, UDP, SMTP and FTP protocol

Python* application resources (EZ10-PCS with PYG option ONLY)

- Python* script interpreter (allows driving the module »internally« implementing the application code directly in the Python* language)
- Memory: 3 MB of NV Memory for the user scripts and 1.5 MB RAM for the Python* engine usage
- Over-the-Air Application SW update
- IIC Bus and SPI Bus controlled in Python*



Telit's EASY® features

- »EASY SCAN« automatic scan over GSM frequencies (also without SIM card)

Order-No.

EZ10-GPRS 3990 150 451

EZ10-PCS with PYG Option 3990 150 462