Terminals for Professional and Industrial M2M Applications

Focus on the Core of Your M2M Applications

CEP's GSM and UMTS terminals are targeted towards professional and industrial M2M applications which require wireless connectivity provided in a robust and reliable casing.

By integrating terminals from CEP, you can fully focus on the core competencies required in your specific market or application area and avoid the cost of developing, testing and certifying terminal related functionality. The price/performance ratio is also designed to provide a positive business case even for high production volumes.

CEP terminals also enable you to cost-effectively enhance and upgrade existing installations with a wireless M2M interface.

The CEP portfolio offers a full range of products based on modules from Telit and Gemalto designed to meet key requirements placed by M2M applications upon terminals.

These include the choice of the mobile network technology and related frequency bands, hardware interfaces (RS232 & USB), support for audio functionality, and whether the terminal requires to be programmable and support I/O interfaces in order to facilitate advanced functionality.

Key Benefits

- Cost-attractive set of terminals that meet a wide range of application needs.
- Robust implementation to enable long-term multi-year operation even in environmentally challenging conditions.
- Easily swap 2G with 3G terminals when required by having a real migration path for these mobile network technologies.
- Use programming capabilities of 3G terminals e.g. to facilitate a migration of any existing 2G installed base.

Key Features

- Modules based on Telit or Gemalto
- Dual band and Quad band support for 2G (GSM/ GPRS).
- Dual band or penta band support for 3G (UMTS and HSPA/ HSPA+).
- Industry standard RS232 interface on all products.
- USB 2.0 interface for UMTS devices to facilitate HSPA+ high-speed data transmission.
- Ultra-low power consumption mode in selected products for battery-powered applications.

EFT/ POS and Vending

Security Applications

Electricity, Gas and Water

Metering Applications

Metering Applications

Digital Signage

Product Specification Overview

Categories	Features	GT864 E	GT864 Quad	GT864 PY	HT910 E	HT910 G	CT63 E	CT63 NG	HT63 E
Modules	Supplier	Telit GE865 Dual	Telit GE865 Quad	Telit GE865 Quad	Telit UE910-EUD	Telit HE910-D	Gemalto BGS2-E	Gemalto BGS5	Gemalto EHS5-E
General	Part Number	06600	06001	06002	06301	06303	06500	06508	06501
Air Interface	2G Frequency Band	900 / 1800 MHz	850 / 900 / 1800 / 1900 MHz	850 / 900 / 1800 / 1900 MHz	900 / 1800 MHz	850 / 900 / 1800 / 1900 MHz	900 / 1800 MHz	850 / 900 / 1800 / 1900 MHz	900 / 1800 MHz
	3G Frequency Band				900 / 2100 MHz	800 / 850, 900, AWS 1700, 1900, 2100 MHz			900 / 2100 MHz
	HSPA DL				7.2 Mbit/s	21 Mbit/s			7.2 Mbit/s
	HSPA UL				5.7 Mbit/s	5.7 Mbit/s			5.7 Mbit/s
Interfaces	RS232 Interface	D-Sub (9-pin)	D-Sub (9-pin)	D-Sub (9-pin)	D-Sub (9-pin)	D-Sub (9-pin)	D-Sub (9-pin)	D-Sub (9-pin)	D-Sub (9-pin)
	USB 2.0				Mini-USB	Mini-USB		Mini-USB	Mini-USB
	Audio (analogue)	Mini-USB	Mini-USB				Mini-USB		
	Antenna	FME	FME	FME	FME	FME	FME	FME	FME
	LEDs	1 GSM + 2 Configurable	1 GSM + 2 Configurable	1 GSM + 2 Configurable	1 GSM + 2 Configurable	1 GSM + 2 Configurable	1 GSM	1 GSM + 2 Configurable	1 GSM + 2 Configurable
	Robust 1,8/3 Volt SIM Card Holder	●	●	●	●	●	●	●	●
Software	Programmable			Python	Python	Python		Java	Java
	Firmware Update	FOTA	FOTA	FOTA	FOTA	FOTA	Serial	Serial / USB / FOTA	Serial/ USB
	TCP/ IP Stack	●	●	●	●	●	●	●	●
Input/ Output	Analog Inputs			1	1	1		1	
	Digital Inputs			4					
	Outputs			1				1	
Electrical Characteristics	Voltage Range	5V-32V	5V-32V	5V-32V	5V-32V	5V-32V	5V-32V	5V-32V	5V-32V
	Standby (@12V)	8.9 mA (*)	~18 mA (*)	~18 mA (*)	~20 mA (*)	~23 mA (*)	<20 mA (*)	15,7 mA (*)	~22 mA(*)
	Low Power Mode (@12V)	<3 mA (*)			~10 mA (*)	~11 mA (*)	~2 mA (*)	~1,5 mA (*)	<2 mA (*)
Hardware Characteristics	Operating Temperature	-30°C to +75°C	-30°C to +75°C	-30°C to +75°C	-30°C to +80°C	-30°C to +80°C	-40°C to +80°C	-40°C to +80°C	-40°C to +80°C
	Size	77x66x26 mm	77x66x26 mm	77x66x26 mm	77x66x26 mm	77x66x26 mm	77x66x26 mm	77x66x26 mm	77x66x26 mm
	Weight	80g	80g	80g	80g	80g	80g	80g	80g
Certificates	CE/ e1/ FCC	CE	CE, e1, FCC	CE, e1	CE	CE, FCC	CE	CE	CE

Accessories (exemplary)

Power Supply

RS232 Cable

DIN Rail

Stub Antenna

Rectangular Antenna

Roof Antenna

Magnetic Antenna

(*)Measurement averaged (including peaks) over a 1 min measurement intervall.
Product specifications are subject to change without prior notice.

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