

EBC-Smartkey (spec's)



GPRS Modem	Telit GE865 QUAD band	
Frequency	850 / 900 / 1800 / 1900 Mhz	
RF Power	Class 4 (2W) @ 850 / 900 MHz	
Sensitivity	850/900 MHz GPRS	-107 dBm (typical)
	1800/1900 MHz GPRS	-106 dBm (typical)
Data	GPRS	Class 10
	Coding schemes	CS1 to CS4
SMS	Point-to-Point mobile originated & mobile terminated	
	Cell Broadcast	

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GPS Receiver	65 channel Venus638LPx	
Frequency	L1 1574.42 MHz	
Acquisition Time (TTFF)	Hot start	< 1 sec
	Cold start	29 sec
Position Accuracy	2.5 meter (CEP)	
	2 meter (CEP with WAAS, EGNOS)	
Sensitivity	Cold start	-148 dBm
	Reacquisition	-155 dBm
	Tracking	-165 dBm
Antenna	Passive patch antenna 20x20mm	

Charging Voltage	Maximum range: +4.3...+10 VDC Preferred power supply for charging: 5V+-10%, 500mA or up.
Charging Current	Max 450mA. Higher charging currents (for batteries with higher capacity) on request.
Power Consumption	<p>35•W standby (typical): GPS off, hot start possible. GSM off. Processor monitors timer + pushbuttons + vibration sensor + I/O, watchdog on, brownout detection on.</p> <p>8•W standby (typical): idem, but with GPS coldstart.</p> <p>Power per fix: < 1.3 mAh, including cold start of GPS, GSM power-up and transmission via GPRS or SMS</p> <p>120 mW tracking: GPS always on, GPRS active, GPRS session open.</p> <p>Power consumption depends on amount of GPRS traffic and navigation parameters.</p>

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Pin	Signal	Type	Description
1	USB VCC	VCC	+4.5...+10VDC Charge input
2	Serial IN	I	Serial input or digital input (2..31V for active high), ~ 50K pulldown
3	Serial OUT	O	Serial or digital output, open collector (max 31V / 10 mA / 100mW)
4	Analog IN	I	Analog Input 0..35V
5	GND	GND	GND for charge and I/O

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