

- 256KB Flash and 48KB SRAM
- Onboard GSM
- GPS Module (option)
- Built-in Battery Charger circuit
- 5 x IO port / 1 x AD-in port / 2 x RS232 port
- Wide temperature poeration

#### **Hardware Specifications**

#### Processor

• ARM 32-bit Cortex-M3 CPU

# Memory

- 256KB Flash Memory
- 48KB SRAM Memory
- 64K-bit no delay RAM

# **GSM Module with Antenna**

- Tri-Band wireless module supporting 900 / 1800 / 1900MHz default (or 850 / 1800 / 1900MHz option)
- Support Voice / SMS / CS Data / GPRS mode
- Built-in TCP / IP with stack-speed design, for M2M application
- Support passive antenna
- Hand-free design (option)

# **GPS Module Antenna**

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- Support GPS module (with 50-channel receiver engine), and active antenna
- Support GGA / RMC / TXT / GLL / GSA / GSV / VTG message Sensitivity of tracking: -158~-160dBm

# **System Indicators**

Low battery / Event occurred / GSM TX / GPS active

# **External Connectors**

• Support 1 x power-in, 1 x AD-in, 2 x RS232, and 5 x IO ports on Micro-fit connector

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• 5 photocoupler IO port (2 x input ports and 3 output ports, with external power support)

# **Serial Ports**

• Support 1 x DMA-based operation three wired serial port, for update and system configuring

# Battery (option)

• Support +4.2V / 1400mAh polymer battery and Auto Battery Charger circuit

# **Power Requirement**

• DC +9V~+32V power requirement with short-circuit protection

# **Operating Temperature**

• -20°c to +80°c

#### **Software Specification**

- Voice / SMS / CS Data / GPRS Mode
- 7 pre-defined SMS number setting
- Remote Output Control
- Voice Wire-tapping
- Triggered report
- Tracking report by Interval / Mileage / Intelligent Mode

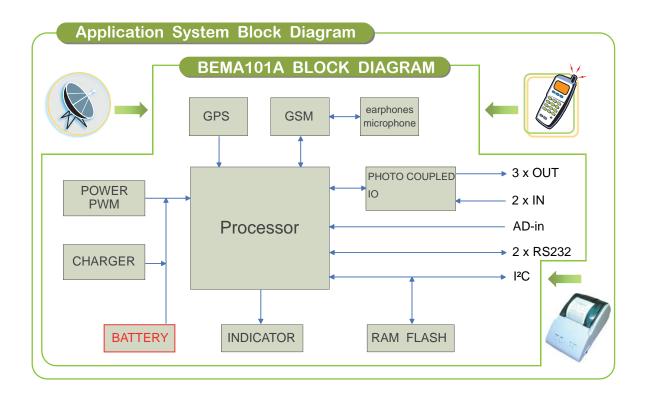
- Analog input measurement
- Device ID / Password setting
- Remote configuration
- Battery-Low alarm
- Specified-Event alarm
- Time / Date setting

#### Accessories

- Micro-fit IO cable set with power-in / IO port / RS232 / AD-in
- System configuring utility program
- User manual

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Order Informa	ition		
Parts NO.	GPS	Battery	Subject application
BEMA101A	\$	\$	AVL
BEMA101A1		$\stackrel{\wedge}{\leadsto}$	Home Security
BEMA101A2			Data Terminal