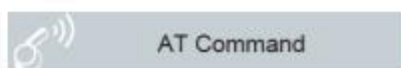
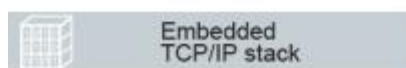
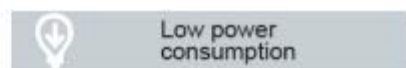
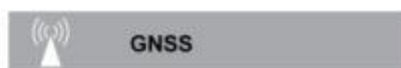


GSM/GPRS+GNSS Cellular Module

Designed for use in any GSM network in the world, Longsung A8901 is a Dual-band GSM/GPRS module that works on 900/1800MHz, A8901 features GPRS multislots class 10 and supports the GPRS coding schemes CS-1, CS-2, CS-3 and CS-4.

At the same time, the module A8901 can support the GNSS function. Its GNSS can support 56 channels, the Sensitivity of Tracking & Navigation is -164 dBm, and its Time-To-First-Fix of Cold Start is <35s, Hot Start is <1s.

To save space on the application platform, A8901 comes as an extremely slim and compact module. This makes it ideally suited for a broad range of mobile computing devices, and particularly offers easy integration with tracker, POS and other M2M application.





A8901

GSM/GPRS+GNSS Module

Cellular

General features:

- Dual-band GSM/GPRS
900/1800MHz
- GPRS multi-slot class 10
- Compliant to GSM phase 2/2+
- Output power:
 - Class 4 (2 W) for 900MHz
 - Class 1 (1 W) for 1800MHz
- Control via AT commands
(GSM07.05,GSM07.07,V.25TER,GPRS,
and Longsung enhanced AT
commands)
- SIM Application Toolkit
- Supply voltage range 3.4V-4.2V
- Low Power consumption
 - Sleep mode: 1.6mA
 - Power down 50 μ A
- Dimensions: 18.7×16.0×2.5mm
- Soldering mounted type
- Temperature range: -40°C to +85°C

Specifications for SMS:

- Point-to-point MO and MT
- SMS cell broadcast
- Text and PDU mode

Specifications for data:

- CSD up to 14.4 kbps
- GPRS class 10: MAX
85.6kbps(downlink)
- USSD
- Non transparent mode
- PBCCH support
- PPP-stack
- Coding schemes CS 1,2,3,4
- Embedded TCP/IP stack

Specifications for GNSS:

- GPS frequency: 1575.42MHz
- Beidou frequency: 1561.098MHz
- Support 56 channel
- Sensitivity:
 - Navigation: -148dBm
 - Tracking: -165dBm
 - Reacquisition: -160dBm
- TTFF:
 - Cold Start: <25s
 - Warm Start: <25s
 - Hot Start: <1s
 - Aided Starts: <1s

Additional features:

- Phone book
- Real time clock
- DTMF

Interfaces:

- Power supply
- SIM 3V, 1.8V
- RTC backup
- UART interface
- GPIO
- RESET
- POWER_ON
- VDD_EXT
- GSM Antenna
- GNSS Antenna

Approvals:

- RoHS/CTA/CCC

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