GSM/GPRS Cellular Module

Longsung A8300 R2 is one of the smallest Quad-band GSM/GPRS modules in LCC castellation packaging with the compact size of 20.0 × 14.5 × 2.3mm, ultra low power consumption and extended temperature range.

Designed for use in any GSM network in the world, the module A8300 R2 can support GSM850/EGSM900/DCS1800/PCS1900 bands; A8300 R2 features GPRS multi-slot class 12 and supports the GPRS coding schemes CS-1, CS-2, CS-3 and CS-4.

To save space on the application platform, A8300 R2 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 AMR, AVL and wearable devices.

A8300 R2

- GPRS class 12
- Best choice for portable devices
- Low power consumption
- SMD or connector
- Ultra small size
- RoHS compliance
- Quad-band GSM and GPRS
- Ultra low cost
- M2M application
- Embedded TCP/IP stack
- AT Command
- UART interface

A8300 R2

GSM/GPRS Cellular Module

General features:

• Quad-band: GSM/GPRS GSM850/EGSM900/DCS1800/PCS1900
• GPRS multi-slot class 12
• Compliant to GSM phase 2/2+
• Output power:
- Class 4 (2 W) for GSM850
- Class 4 (2 W) for EGSM900
- Class 1 (1 W) for DCS1800
- Class 1 (1 W) for PCS1900
• Control via AT commands
• SIM Application Toolkit
• Normal supply voltage range 3.4V-4.2V
• Restricted supply voltage range 3.3V-4.5V
• Low Power consumption
- Sleep mode: <1.6mA
• Dimensions: 20 ×14.5×2.3mm
• Soldering mounted type
• Temperature range: -40°C to +85°C

Specifications for data:

• GPRS class 12: MAX 85.6kbps(downlink/uplink)
• USSD
• Non transparent mode
• PBCCH support
• PPP-stack
• Coding schemes CS 1,2,3,4
• Embedded TCP/IP stack

Specifications for SMS:

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

Additional features:

• Phone book
• Real time clock
• DTMF (Only Support Encoding)

Interfaces:

• 51-pin LCC package
- Power supply
- SIM 3V, 1.8V
- RTC backup input
- 2 UART interface
UART0: TXD,RXD,CTS,RTS,DTR,RI
UART1: TXD,RXD
- PCM
- LCD(SPI)
- IIC
- USB
- PWM
- Hardware Reset Input
- Power on key input
- VDDIO_2.8V output
- 2 ADC (1.8V tolerance)
- 1 analog audio input: MICP, MICN
- 1 analog audio output: SPKP, SPKN
- Antenna interface

Approvals:

• RoHS/CCC/CTA

www.longsung.com

LONG UNG
LONGSUNG TECHNOLOGY(SHANGHAI) CO., LTD.
Add:Rm 606, Building #1-A, No.3000 Longdong Avenue,
Pudong District Shanghai, China
ZIP:201204
Tel:+86-21-5080 9688
Fax:+86-21-5080 8118