LTE-TDD/LTE-FDD/TD-SCDMA/UMTS/EVDO/EDGE/ GPRS/GSM/CDMA/GPS Cellular Module

U8300C is a wireless module which is designed for the global market. It is a consumptive product; it can be designed in many kinds of applications which can work on LTE-TDD/LTE-FDD/TD-SCDMA/UMTS/ EVDO/EDGE/GPRS/GSM/CDMA network.

On LTE-TDD network, U8300C enables connect to the Internet at DL data speed up to 61Mbps and UL data speed up to 18Mbps. On LTE-FDD network at speed up to 100Mbps DL and 50Mbps UL, in the area where LTE service are not available, U8300C still enables reliable and secure data connect over 3G(TD-SCDMA/UMTS/EVDO) or 2G(EDGE/GPRS/CDMA) network.

U8300C provides SMS, MMS, Phonebook functions as well as high speed access, and also audio function. It can be designed in many kinds of applications. Such as Data card, Video monitor, Tablet, Electric-book, MID, Vehicle equipment, etc.

LTE-TDD/LTE-FDD	M2M application	PCI Express Mini Card Standard Interface
Receive diversity	Router application	RoHS compliance
AT Command	USB 2.0 interface	Windows XP/Vista/7 operating system
Surveillance application	UART interface	Linux operating system
Laptop application	GPS	

U8300C

LTE-TDD/LTE-FDD Cellular Module

General features:

• EDGE multi-slot class 12

• GPRS multi-slot class 12

• Compliant to GSM phase 2/2+

• Output power:

- Class 3 (0.25W) for

   LTE/TD-SCDMA/UMTS

- Class 4 (2 W) for GSM850/900

- Class 1 (1 W) for GSM1800/1900

• Control via AT commands

(3GPP TS27.005/3GPP TS27.007)

• Supply voltage range 3.3V-3.6V

• Low Power consumption

- Sleep mode: 5mA

- Power down 50 µA

• Dimensions: 51.0×30.0×4.6mm

• Temperature range

- Normal Operation: -20°C to +65°C

- Restricted Operation: -30°C to +75°C

- Storage Operation: -40°C to +85°C

Specifications for SMS:

• Point-to-point MO and MT

• SMS cell broadcast

• Text and PDU mode

Band Configuration:

U8300C:

• LTE-TDD Quad-band

  Band 38/39/40/41

• LTE-FDD Dual-band Band 1/3

• TD-SCDMA Dual-band Band 34/39

• UMTS Single band Band 1

• EVDO Single band 800MHz

• CDMA1x Single band 800MHz

• GSM Quad-band 850/900/1800/1900

Specifications for GPS:

• Support 55 channel

• TTFF

-Cold Start: 32S

-Warm Start: 29S

-Hot Start: 1S

• Sensitivity

-Cold Start: -145dBm

-Acquisition: -160dBm

-Tracking: -161dBm

Approvals:

• RoHS

• CCC

• CTA

Additional features:

• Phone book

• PCM and analog Audio

• DTMF

Specifications for data:

• Support Release 9 Category 3

• LTE-FDD up to 100 Mbps DL,50 Mbps UL

• LTE-TDD up to 61 Mbps DL,18 Mbps UL

• TD-SCDMA up to 4.2 Mbps DL,2.2 Mbps UL

• DC-HSPA+ up to 42Mbps DL,5.76Mbps UL

• 1xEV-DOrB up to 14.7Mbps FL,5.4Mbps RL

• EDGE class 12: 237kbps DL,118kbps UL

• GPRS class 10: 85.6kbps DL,85.6kbps UL

• CSD up to 14.4 kbps

• Non transparent mode

• PBCCH support

• PPP-stack

• Coding schemes CS 1,2,3,4

• FOTA

• TCP/IP

• NDIS

Interfaces:

RF connector

PCI Express® Mini Card Interface

- Power supply

- USB 2.0 high speed

- UICC/SIM/UIM card interface 3 V, 1.8 V

- UART

- Analog Audio

- PCM

Antenna connector