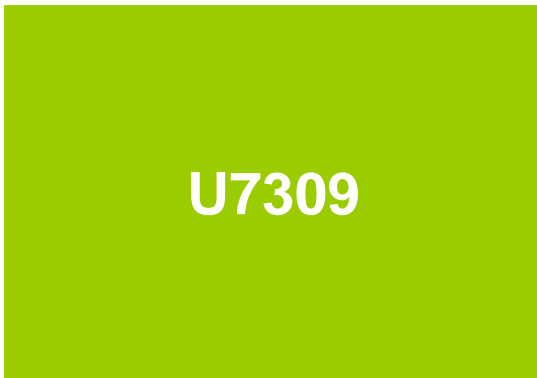
















HSPA+ Cellular Module

The U7309 is a Tri-Band HSPA+/WCDMA and Quad-Band EDGE/GPRS/GSM module solution which supports HSPA+ 14.4Mbps (downlink) and 5.76Mbps (uplink) for data transfer. In areas where HSPA+ is not available, it still enable reliable and secure data connection over UMTS at speed up to 384 Kbps or EDGE at speed up to 237 Kbps or GPRS at speed up to 85.6 Kbps.

Except used as a standard wireless modem through AT command, It offers Audio (optional) , SMS, MMS, Phonebook. It is ideal for a wide range of products including Tablet, Gateway, Telematics, Tracking solution, Security solution and much more.



 HSPA+	CTA CTA compliance	 Analog and digital audio interface
 Quad-band EDGE and GPRS	 M2M application	 PCI Express Mini Card Standard Interface
 AT Command	 Router application	 RoHS compliance
 Surveillance application	 USB 2.0 interface	 Windows CE/XP/Vista/7 operating system
 Laptop application	 UART interface	 Linux operating system



U7309

HSPA+ Cellular Module

General features:

- HSPA+ downlink up to 14.4Mbps
- HSUPA uplink up to 5.76Mbps
- WCDMA(UMTS) uplink up to 384kbps
- Trs-Band UMTS (HSPA+)
850/1900/2100 MHz
- Quad-Band
GMS 850/900/1800/1900 MHz
- GPRS multi-slot class 12
- UMTS/HSPA+ 3GPP release 7
- GSM 3GPP release 99
- Output power:
 - Class 4 (2 W) for GSM900
 - Class 3 (0.25 W) for UMTS
 - Class E2 (0.5 W) for EDGE900
 - Class E2 (0.4 W) for EDGE1800
 - Class 1 (1 W) for GSM1800
- Control via AT commands (Hayes 3GPP TS 27.007 and 27.005)
- SIM Application Toolkit (release 99)
- Supply voltage range: 3.3 ... 4.2V
- Power consumption:
 - Sleep mode <5mA
 - Power down 50 μ A
 - Average Supply Current < 700mA
- Temperature range
 - Normal Operation: -20°C to +65°C
 - Restricted Operation: -30°C to +75°C
 - Storage: -40°C to +85°C

Specification for HSPA+ data:

- HSPA+: max. 14.4 Mbps (DL), 5.76 Mbps (UL),

Specification for UMTS data:

- UMTS: Max. 384 kbps (DL),
Max. 384 kbps (UL)

Specification for EDGE data:

- EDGE class 12: Max. 237 kbps (DL),
Max. 118 kbps (UL)
- Mobile station class B
- Coding scheme MCS 1-9

Specification for GPRS data:

- GPRS class 12: Max. 85.6 kbps (DL),
Max. 42.8 kbps (UL)
- Mobile station class B
- Full PBCCH support
- Coding schemes CS 1-4

Specification for CSD data:

- GSM data rate 14.4 kbps, V.110
- UMTS data rate 57.6 kbps, V.120
- RLP (Non-transparent mode)

Specification for SMS:

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

Special features:

- Improved power-saving modes
- USB driver for Microsoft Windows2000/XP/Vista32/64, Windows7
- RIL/NDIS/USB driver for devices based on Windows Mobile5.0 and its Successor
- USB driver for Linux2.4.x, Linux2.6.x
- RIL for android2.3/4.0 and its Successor
- Customer IMEI as variant
- Firmware update via USB

Interfaces:

- Hirose's U.FL-R-SMT 50 Ω antenna connector
- PCI Express Mini Card Interface(Revision 1.2)
- Size 51*30*4.6mm
- Power supply
- USB 2.0 high speed
- USIM/SIM card interface 3 V, 1.8 V
- UART
- PCM(optional)
- Reset
- LED

Typical application scene:

- Security solution
- Telematics

Approvals:

- RoHS
- CTA/CCC