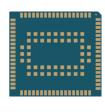


Quectel UG89

UMTS/HSPA+ Module







Quectel UG89 is a cost-effective and high-performance UMTS/HSPA+ module with data rates of up to 21 Mbps downlink and up to 5.76 Mbps uplink. UG89 is fully backward compatible with existing EDGE and GSM/GPRS networks.

In UMTS/HSPA+ connectivity, UG89 is suited for global networks. UG89 also adopts the laser engraving process to ensure more good-looking appearance, strong metal texture, better heat dissipation, information not easy to be erased, and more suitable for automation requirements.

A rich set of Internet protocols, industry-standard interfaces (USB/UART/PCM/ADC) and abundant drivers (USB drivers for Windows 7/8/8.1/10, Linux and Android) extend the applicability of UG89 to a wide range of M2M applications, such as automation, smart metering, tracking systems, security solutions, routers, wireless POS, mobile computing devices, PDA phones and tablet PC.



Key Features



- ✓ Low redesign cost
- ✓ High-performance and multi-feature interfaces
- → High-quality data and image transmission even in harsh conditions



Multi-band for UMTS & GSM



Max. 21 Mbps (DL) Max. 5.76 Mbps (UL)



LGA Package



Embedded Abundant Protocols



USB 2.0 High Speed



QuecFOTA



Digital Audio



GPRS/EDGE Multi-slot Class 12

Quectel UG89

		Queclei 0009
UMTS/HSPA+	UG89	
Region/Operator	Global	
Dimensions (mm)	25.4 × 27.6 × 2.35	
Weight (g)	Approx. 3.77	
Temperature Range		
Operating Temperature	-35 °C to +75 °C	
Extended Temperature	-40 °C to +85 °C	
Frequency Bands		
WCDMA	B1/B2/B5/B8	
GSM	B2/B3/B5/B8	
Certifications		
Regulatory	Global: GCF Europe: CE North America: PTCRB America: FCC Canada: IC Brazil: Anatel Mexico: IFETEL Australia/New Zealand: RCM	
Data Rate		
HSPA+ (Mbps)	21 (DL)/5.76 (UL)	
WCDMA (kbps)	384 (DL)/384 (UL)	
EDGE (kbps)	236.8 (DL)/236.8 (UL)	
GPRS (kbps)	85.6 (DL)/85.6 (UL)	
Interfaces		
USB 2.0	×1	
Digital Audio (PCM)	×1	
(U)SIM	×1	
UART	× 2	
ADC	×1	
PWM	× 2	
STATUS	×1	
I2C	×1	
RESET_N	×1	
PWRKEY	×1	
GPIO	× 5	
Antenna	× 1	
Voice		
Speech Codec Modes	HR/FR/EFR/AMR/AMR-WB	
Echo Arithmetic	Echo Cancellation/Noise Reduction	
Enhanced Features		
FOTA (QuecFOTA)	•	
Firmware Upgrade via USB	•	
QuecFile	•	
(U)SIM Detection	•	

Note:

: supported



Quectel UG89

	UG89	
Software Features		
Protocols	TCP/UDP/PPP/FTP/HTTP/NTP/PING/NITZ/CMUX/HTTPS/FTPS/SSL/FILE/MQTT/SMTP/MMS/SMTPS/CSD*	
USB Serial Driver	Windows 7/8/8.1/10 Linux 2.6–5.12 Android 4.x–11.x	
RIL Driver	Android 4.x–11.x	
USB RNDIS Driver	Windows 7/8/8.1/10 Linux 2.6–5.12	
USB ECM Driver	Linux 2.6–5.12	
Electrical Features		
Supply Voltage Range	3.3–4.5 V, typ. 3.8 V	
Power Consumption (Typical)	18 μA @ power off	

Note:



^{*:} under development