






Product	UC15	UC15 Mini PCIe	UC20	UC20 Mini PCIe	UG95
Picture					
Packaging	108-pin LCC	52-pin Mini PCIe	112-pin LCC	52-pin Mini PCIe	102-pin LGA
Dimensions	29.0 × 29.0 × 2.5mm	51.0 × 30.0 × 4.9mm	32.0 × 29.0 × 2.5mm	51.0 × 30.0 × 4.9mm	23.6 × 19.9 × 2.2mm
3G	UMTS/HSDPA	UMTS/HSDPA	UMTS/HSPA+	UMTS/HSPA+	UMTS/HSPA
Frequency Range (MHz)	E (for Europe) 900/2100@UMTS 900/1800@GSM A (for America) 850/1900@UMTS 850/900/1800/1900@GSM G (for Global)	900/2100@UMTS 900/1800@GSM	900/2100@UMTS 850/900/1800/1900@GSM	900/2100@UMTS 850/900/1800/1900@GSM	900/2100@UMTS 900/1800@GSM
Weight(approx.)	4.3g	9.3g	4.9g	9.8 g	2.5 g
Temperature Range	-40 °C to +85 °C	-40 °C to +80 °C	-40 °C to +85 °C	-40 °C to +80 °C	-35 °C to +70 °C
Data Transmission					
HSPA data rate (Mbps)	3.6 (DL)	3.6 (DL)	14.4 (DL)/ 5.76 (UL)	14.4 (DL)/ 5.76 (UL)	7.2 (DL)/ 5.76 (UL)
UMTS data rate (Kbps)	384 (DL)/ 384 (UL)	384 (DL)/ 384 (UL)	384 (DL)/ 384 (UL)	384 (DL)/ 384 (UL)	384 (DL)/ 384 (UL)
GPRS data rate (Kbps)	85.6 (DL)/ 85.6 (UL)	85.6 (DL)/ 85.6 (UL)	85.6 (DL)/ 85.6 (UL)	85.6 (DL)/ 85.6 (UL)	85.6 (DL)/ 85.6 (UL)
EDGE data rate (Kbps)	236.8 (DL)	236.8 (DL)	236.8 (DL)/ 236.8 (UL)	236.8 (DL)/ 236.8 (UL)	236.8 (DL)
SMS	Yes	Yes	Yes	Yes	Yes
CSD	Yes	Yes	Yes	Yes	Yes
Protocols	TCP/ UDP/ PPP/ MMS/ FTP/ SMTP/ SMTPS/ HTTP/ HTTPS/ PING/ SSL	TCP/ UDP/ PPP/ MMS/ FTP/ SMTP/ SMTPS/ HTTP/ HTTPS/ PING/ SSL	TCP/ UDP/ PPP/ MMS/ FTP/ SMTP/ SMTPS/ HTTP/ HTTPS/ PING/ SSL	TCP/ UDP/ PPP/ MMS/ FTP/ SMTP/ SMTPS/ HTTP/ HTTPS/ PING/ SSL	TCP/ UDP/ PPP/ MMS*/ SMTP*/ FTP*/ SSL*
Interfaces					
SIM	1.8V/ 3V	1.8V/ 3V	1.8V/ 3V	1.8V/ 3V	1.8V/ 3V
UART	1	1	2	1	1
USB	2.0 HS	2.0 HS	2.0 HS	2.0 HS	2.0 HS
Audio Analog	Optional ¹	Optional ¹	No	No	No
Audio Digital (PCM)	Optional ¹	Optional ¹	Optional ¹	Optional ¹	Optional ¹
RTC Backup	No	No	Yes	No	Yes
ADC	× 2, 12bits	No	× 2, 15bit	No	No
GPIO	Yes	No	Yes	No	No
Antenna	Pads for Primary	Connector for Primary	Pads for Primary, Rx-diversity and GNSS	Pads for Primary, Rx-diversity and GNSS	Pads for Primary
SIM Card Holder	No	No	No	Optional for -E Version	
Enhanced Features					
eCall	Yes	Yes	Yes	Yes	Yes*
DTMF	Yes	Yes	Yes	Yes	Yes*
QuecFOTA™	Yes	Yes	Yes	Yes	Yes*
DFOTA*	Yes*	Yes*	Yes	Yes	Yes*
Audio Playback/ Audio Recording	No	No	Yes	Yes	No
QuecLocator	Yes	Yes	Yes	Yes	Yes*
QuecFile	Yes	Yes	Yes	Yes	Yes*
RIL Driver	Windows CE6.0*, Android 2.3/4.0, Windows Mobile 6.1*/6.5*	Windows CE6.0*, Android 2.3/4.0, Windows Mobile 6.1*/6.5*	Windows CE6.0, Android 2.3/4.0/4.2	Windows CE6.0, Android 2.3/4.0/4.2	Yes*
NDIS			Windows XP/ Vista/ 7/8/Linux2.6/3.0	Windows XP/ Vista/ 7/8/Linux2.6/3.0	
MUX	Linux 2.6 or later, Android 2.3 or later	Linux 2.6 or later, Android 2.3 or later	Linux 2.6/3.0, Android 2.3/4.0/4.2	Linux 2.6/3.0, Android 2.3/4.0/4.2	Yes*
USB Serial Driver	Windows XP/ Vista/ 7/ 8, Windows CE5.0/ 6.0/7.0, Windows Mobile 6.1*/6.5*,Linux 2.6 or later, Android 2.3 or later	Windows XP/ Vista/ 7/ 8, Windows CE5.0/ 6.0/7.0, Windows Mobile 6.1*/6.5*,Linux 2.6 or later, Android 2.3 or later	Windows XP/Vista/7/8, Windows CE5.0/6.0/7.0, Android 2.3/4.0/4.2, Linux 2.6/3.0	Windows XP/Vista/7/8, Windows CE5.0/6.0/7.0, Android 2.3/4.0/4.2, Linux 2.6/3.0	Windows XP/Vista/7/8*, Linux 2.6/3.0, Android 2.3/4.0/4.2
SIM Detection	Yes	No	Yes	No	No
GNSS	No	No	GPS/GLONASS	GPS/GLONASS	
Firmware Update	via USB/ UART Interface	via USB/ UART Interface	via USB/ UART Interface	via USB/ UART Interface	via USB/ UART Interface
Electrical Features					
Power Supply	3.3 ~ 4.3 V	3.0~3.6V, typ. 3.3V	3.4 ~ 4.3 V	3.0~3.6V, typ. 3.3V	3.4 ~ 4.3V
Power Consumption	2.2mA@ GSM sleep, DRX=9 2.1mA@ UMTS sleep, DRX=9	3.5mA@ GSM sleep, DRX=9 3.3mA@ UMTS sleep, DRX=9	1.5mA@GSM sleep, DRX=9 1.4mA@UMTS sleep, DRX=9	3.1mA@GSM sleep, DRX=9 3.0mA@UMTS sleep, DRX=9	0.96mA@GSM sleep, DRX=9
Certifications					
Certifications	CE/ GCF*/ FCC/ PTCRB/ AT&T	CE/ GCF*	CE/ FCC/ IC/ KC/ NCC/ OFCA/ GCF/ PTCRB/ RCM/ SKT*/ AT&T/ Telstra*/ ANATEL*/ Vodafone/ Rogers*	CE/ FCC/ PTCRB/ GCF/ RCM	CE*/GCF*/ FCC*/ PTCRB*/ AT&T*
Recommended Applications					
Recommended Applications	Telematics, Smart Metering, Mobile POS Terminal, Gateway, Security, Tracking and Tracing, Remote Maintenance and Control, Networking, Mobile Computing, Healthcare, etc.				

Note 1: Only supported in Telematics Version.