
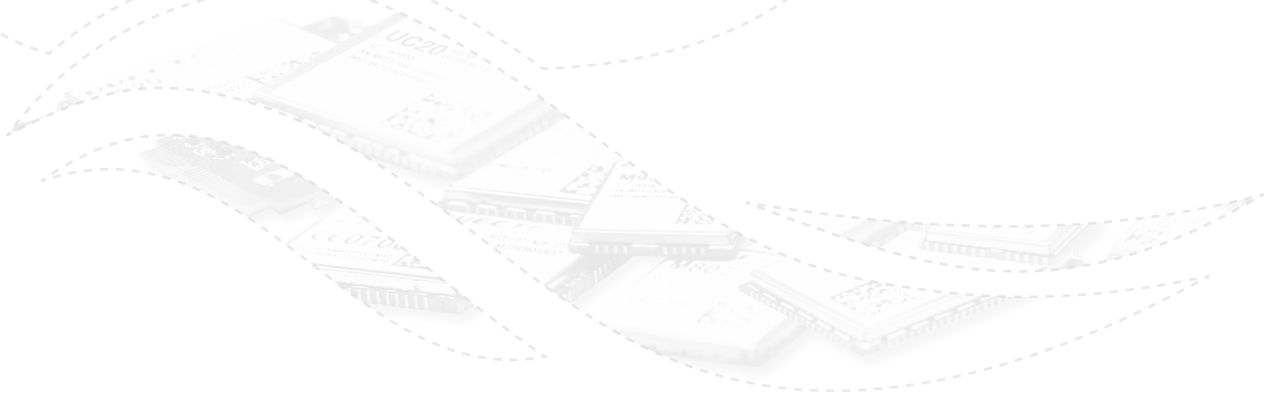







DEDICATED SUPPLIER OF

M2M 
WIRELESS
MODULES



QUECTEL WIRELESS SOLUTIONS CO., LTD.

Quectel GSM/GPRS Module Family

Product	M10	M66	M72	M85	M95
Picture					
Packaging	64-pin LCC Quad-band	44-pin LCC Quad-band	30-pin LCC Dual-band	83-pin LCC Quad-band	42-pin LCC Quad-band
Dimensions	29.0 × 29.0 × 3.6mm	17.7 × 15.8 × 2.3mm	24.0 × 27.5 × 2.7mm	25.3 × 24.5 × 2.6mm	23.6 × 19.9 × 2.65mm
Frequency Range (MHz)	850/ 900/ 1800/ 1900	850/ 900/ 1800/ 1900	900/ 1800	850/ 900/ 1800/ 1900	850/ 900/ 1800/ 1900
Weight (approx.)	6.0 g	1.3 g	3.3 g	3.3 g	3.0 g
Temperature Range	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C
Data Transmission					
GPRS Multi-slot Class	12, 1-12 configurable	12, 1-12 configurable	12, 1-12 configurable	12, 1-12 configurable	12, 1-12 configurable
Data Rate (kbps)	85.6 (DL & UL)	85.6 (DL & UL)	85.6 (DL & UL)	85.6 (DL & UL)	85.6 (DL & UL)
SMS	•	•	•	•	•
Protocols	TCP/ UDP/ PPP/ HTTP/ FTP/ SMTP/ PING/ NTP/ NITZ/ MMS Sending/ SSL	TCP/ UDP/ PPP/ HTTP/ FTP/ SMTP/ PING/ NTP/ NITZ/ MMS Sending/ SSL	TCP/ UDP/ PPP/ HTTP/ FTP/ SMTP/ PING/ NTP/ NITZ/ MMS Sending	TCP/ UDP/ PPP/ HTTP/ FTP/ SMTP/ PING/ NTP/ NITZ/ POP3/ MMS/ SSL	TCP/ UDP/ PPP/ HTTP/ FTP/ SMTP/ PING/ NTP/ NITZ/ MMS Sending/ SSL
Specifications for Voice					
Speech Codec Modes	HR/ FR/ EFR/ AMR	HR/ FR/ EFR/ AMR		HR/ FR/ EFR/ AMR	HR/ FR/ EFR/ AMR
Echo Arithmetic	Echo cancellation Echo suppression Noise reduction	Echo cancellation Echo suppression Noise reduction		Echo cancellation Echo suppression Noise reduction	Echo cancellation Echo suppression Noise reduction
Interfaces					
SIM	1.8V/ 3V	1.8V/ 3V	1.8V/ 3V	1.8V/ 3V	1.8V/ 3V
Audio Analog	2 inputs/ 2 outputs	1 input/ 2 outputs		2 inputs/ 3 outputs	2 inputs/ 2 outputs
Audio Digital		•		•	•
RTC Backup	•	•	•	•	•
UART	3	3	2	3	2
ADC	× 2, 10bit	× 1, 10bit		× 1, 10bit	
SD Card Interface	•			•	
GPIO	•				
Temperature Detection				•	•
Enhanced Features					
eCall	•	•		•	•
Jamming Detection	•	•	•	•	•
DTMF	•	•	•	•	•
Audio Playback/ Audio Recording	•	•		•	•
Dual-SIM				•	•
QuecFOTA™	•	•	•	•	•
QuecCell	•	•	•	•	•
QuecLocator	•	•	•	•	•
QuecFile	•	•		•	
OpenCPU™	•	•		•	
RIL for Android & WinCE	•	•	•	•	•
MUX	•	•	•	•	•
Electrical Features					
Power Supply	3.3 ~ 4.6V	3.3 ~ 4.6V	3.3 ~ 4.6V	3.3 ~ 4.6V	3.3 ~ 4.6V
Low Power Consumption	1.3mA @DRX=5 1.2mA @DRX=9	1.3mA @DRX=5 1.2mA @DRX=9	1.3mA @DRX=5 1.2mA @DRX=9	1.3mA @DRX=5 1.2mA @DRX=9	1.3mA @DRX=5 1.2mA @DRX=9
Certifications					
Certifications	CE/ GCF/ PTCRB FCC/ IC/ ANATEL Rogers/ NCC/ TELCEL UCRF/ ICASA	CE/ ANATEL/ ICASA	CE/ GCF/ UCRF/ RCM	CE/ GCF/ FCC	CE/ GCF/ Vodafone/ PTCRB/ FCC/ IC/ ANATEL/ Rogers/ RCM/ NCC/ TELCEL/ UCRF/ ICASA
Recommended Applications					
Recommended Applications	Telematics, Smart Metering, Mobile POS Terminal, Gateway, Security, Tracking and Tracing, Remote Maintenance and Control, Mobile Computing, Healthcare, etc.				


Quectel UMTS/HSPA(+) Module Family



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	30.0 × 51.0 × 4.9mm	29.0 × 32.0 × 2.5mm	30.0 × 51.0 × 4.9mm	23.6 × 19.9 × 2.2mm	
3G	UMTS/HSDPA	UMTS/HSDPA	UMTS/HSPA+	UMTS/HSPA+	UMTS/HSPA	
Frequency Bands (MHz)	-E (for Europe)	900/2100@UMTS 900/1800@GSM	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
	-A (for America)	850/1900@UMTS 850/900/1800/1900@GSM		850/1900@UMTS	850/1900@UMTS	850/1900@UMTS
	-G (for Global)			800/850/900/1900/2100@UMTS 850/900/1800/1900@GSM	800/850/900/1900/2100@UMTS 850/900/1800/1900@GSM	
	-T (for Thailand)	850/2100@UMTS 850/900/1800/1900@GSM				
Weight (approx.)	4.3g	9.3g	4.9g	9.8g	2.5g	
Temperature Range	-40 °C ~ +85 °C	-40 °C ~ +80 °C	-40 °C ~ +85 °C	-40 °C ~ +80 °C	-40 °C ~ +85 °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	•	•	•	•	•	
CSD	•	•	•	•	•	
Protocols	TCP/UDP/PPP/MMS/FTP/SMTP/SMTPS/HTTP/HTTPS/PING/SSL	TCP/UDP/PPP/MMS/FTP/SMTP/SMTPS/HTTP/HTTPS/PING/SSL	PPP/TCP/UDP/FTP/HTTP/FILE/MMS/SMTP/SSL	PPP/TCP/UDP/FTP/HTTP/FILE/MMS/SMTP/SSL	TCP/UDP/PPP/MMS/FTP/FTP/SMTP/SMTPS/HTTP/HTTPS/NTP/PING/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				
Audio Digital (PCM)	Optional ¹	Optional ¹	Optional ¹	Optional ¹	Optional ¹	
RTC Backup			•		•	
ADC	× 2, 12bits		× 2, 15bits			
GPIO	•					
Antenna	Pads for Primary	Connector for Primary	Pads for Primary, Rx-diversity and GNSS	Connectors for Primary, Rx-diversity and GNSS	Pads for Primary	
SIM Card Holder				Optional for -E Version		
Enhanced Features						
eCall	•	•	•	•	◦	
DTMF	•	•	•	•	◦	
QuecFOTA™	•	•	•	•		
DFOTA	•	•	•	•	•	
Audio Playback/ Audio Recording	•	•	•	•		
QuecLocator	•	•	•	•	•	
QuecFile	•	•	•	•		
RIL Driver	Windows CE6.0*, Android 2.3/4.0/5.0, Windows Mobile 6.1/6.5*	Windows CE6.0*, Android, 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	◦	
NDIS			Windows XP/Vista/7/8, Linux 2.6/3.0	Windows XP/Vista/7/8, Linux 2.6/3.0		
MUX	Linux 2.6 or later, Android 2.3 or later	Linux/ Android	Linux 2.6/3.0, Android 2.3/4.0/4.2	Linux 2.6/3.0, Android 2.3/4.0/4.2	◦	
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/ Android	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, Linux 2.6/3.0, Android 2.3/4.0/4.2	
SIM Detection	•		•			
GNSS			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						
Supply Voltage Range	3.3 ~ 4.3V	3.0~3.6V, typ. 3.3V	3.3 ~ 4.3V	3.0~3.6V, typ. 3.3V	3.3~4.3V, typ. 3.8V	
Power Consumption	1.8mA@ GSM sleep, DRX=9 1.7mA@ UMTS sleep, DRX=9	3.5mA@ GSM sleep, DRX=9 3.3mA@ UMTS sleep, DRX=9	1.5mA@GSM sleep, DRX=9 1.1mA@UMTS sleep, DRX=9	3.1mA@GSM sleep, DRX=9 3.0mA@UMTS sleep, DRX=9	0.96mA@GSM sleep, DRX=9 1.15mA@UMTS sleep, DRX=9	
Certifications						
Certifications	CE/ GCF/ FCC/ PTCRB/ AT&T/ IC/ Rogers/ NCC/ NBTC/ OFCA/ RCM	CE/ GCF/ NCC	CE/ FCC/ IC/ KCC/ NCC/ OFCA/ GCF/ PTCRB/ RCM/ SKT/ AT&T/ Rogers/ ANATEL/ Vodafone/ NBTC/ TA/ NAL	CE/ FCC/ PTCRB/ GCF/ RCM	CE/ GCF/ FCC/ IC/ ICASA/ PTCRB/ AT&T/ Rogers/ DoC	
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.

◦ & * Under development

Quectel LTE Module Family







UG96

102-pin LGA
26.5 × 22.5 × 2.2mm
UMTS/HSPA
800/850/900/1900/2100@UMTS 850/900/1800/1900@GSM
3.1g
-40 °C ~ +85 °C
7.2 (DL)/ 5.76 (UL)
384 (DL)/ 384 (UL)
85.6 (DL)/ 85.6 (UL)
236.8 (DL)/ 236.8 (UL)
•
•
TCP/ UDP/ PPP/ MMS/ HTTP/ HTTPS/ SMTP/ SMTPS/ FTP/ NTP/ NITZ/ PING/ SSL
1.8V/ 3V
1
2.0 HS
Optional ¹
•
Pads for Primary
•
•
•
•
•
Windows XP/Vista/7, Linux 2.6/3.0, Android 2.3/4.0/4.2
•
via USB/ UART Interface
3.3~4.3V, typ. 3.8V
1.1mA@GSM sleep, DRX=9 1.7mA@UMTS sleep, DRX=9
CE/ FCC/ GCF/ PTCRB/ Anatel/ Movistar/ DoC/ RCM

Product	EC20	EC20 Mini PCIe
Picture		
Packaging	76-pin LCC + 64 other pads	52-pin Mini PCIe
Dimensions	29.0 × 32.0 × 2.4mm	30.0 × 51.0 × 4.9mm
4G	LTE Cat3	LTE Cat3
Frequency Bands (MHz)	<ul style="list-style-type: none"> -E (for Europe) B1/3/5/7/8/20 @FDD-LTE, B1/5/8 @WCDMA 850/900/1800/1900 @GSM -A (for America) B2/4/5/12/17 @FDD-LTE, B2/4/5 @WCDMA 850/1900 @GSM -C (for China) B1/3/8 @FDD-LTE, B38/39/40/41 @TDD-LTE B1/B8 @WCDMA, B34/39 @TD-SCDMA, 900/1800 @GSM -CE (for China) B1/B3 @FDD-LTE, B38/B39/B40/B41 @TDD-LTE B1 @WCDMA, B34/B39 @TD-SCDMA, BC0 @CDMA2000 1X/EVDO, 900/1800 @GSM 	<ul style="list-style-type: none"> B1/3/5/7/8/20 @FDD-LTE, B1/5/8 @WCDMA 850/900/1800/1900 @GSM B2/4/5/12/17 @FDD-LTE, B2/4/5 @WCDMA 850/1900 @GSM B1/3/8 @FDD-LTE, B38/39/40/41 @TDD-LTE B1/B8 @WCDMA, B34/39 @TD-SCDMA, 900/1800 @GSM B1/B3 @FDD-LTE, B38/B39/B40/B41 @TDD-LTE B1 @WCDMA, B34/B39 @TD-SCDMA, BC0 @CDMA2000 1X/EVDO, 900/1800 @GSM
Weight (approx.)	4.6	9.5
Temperature Range	-40 °C ~ +85 °C	-40 °C ~ +80 °C
Data Transmission		
LTE data rate (Mbps)	LTE-FDD Max 100 (DL)/ Max 50 (UL) LTE-TDD Max 61 (DL)/ Max 18 (UL)	LTE-FDD Max 100 (DL)/ Max 50 (UL) LTE-TDD Max 61 (DL)/ Max 18 (UL)
DC-HSPA+ data rate (Mbps)	Max 42 (DL)/ Max 5.76 (UL)	Max 42 (DL)/ Max 5.76 (UL)
WCDMA data rate (Kbps)	Max 384 (DL)/ Max 384 (UL)	Max 384 (DL)/ Max 384 (UL)
TD-SCDMA data rate (Mbps)	Max 4.2 (DL)/ Max 2.2 (UL)	Max 4.2 (DL)/ Max 2.2 (UL)
EDGE data rate (Kbps)	236.8 (DL)/ 236.8 (UL)	236.8 (DL)/ 236.8 (UL)
GPRS data rate (Kbps)	85.6 (DL)/ 85.6 (UL)	85.6 (DL)/ 85.6 (UL)
SMS	•	•
CSD	•	•
Protocols	TCP/ UDP/ PPP/ FTP/ HTTP/ SMTP*/ MMS*/ FTP*/ SMTP*/ NTP/ PING/ DTMF/ FILE*/ CMUX/ QMI	TCP/ UDP/ PPP/ FTP/ HTTP/ SMTP*/ MMS*/ FTP*/ SMTP*/ NTP/ PING/ DTMF/ FILE*/ CMUX/ QMI
Interfaces		
SIM	1.8V/ 3V	1.8V/ 3V
UART	1	1
USB	2.0 HS	2.0 HS
IIC	•	•
Audio Analog		
Audio Digital (PCM)	Optional ¹	Optional ¹
RTC Backup		
ADC	× 2, 15bits	
GPIO	•	
Antenna	Pads for Primary, Rx-diversity and GNSS	Connector for Primary, Rx-diversity and GNSS
SIM Card Holder	•	
Enhanced Features		
eCall	•	•
DTMF	•	•
DFOTA	•	•
QM/ Rmnet	•	•
Audio Playback/ Audio Recording	Optional ¹	Optional ¹
QuecLocator	•	•
QuecFile	•	•
RIL Driver	Android 2.3/ 4.0/ 4.2/ 4.4/ 5.0	Android 2.3/ 4.0/ 4.2/ 4.4/ 5.0
NDIS	Windows XP/ Vista/ 7/ 8, Windows CE5.0/ 6.0/7.0	Windows XP/ Vista/ 7/ 8, Windows CE5.0/ 6.0/7.0
ECM	Linux 2.6 or later	Linux 2.6 or later
Gobinet	Linux 2.6 or later	Linux 2.6 or later
Linux qml wwan	Linux 2.6 or later	Linux 2.6 or later
USB Serial Driver	Windows XP/ Vista/ 7/ 8, Windows CE5.0*/ 6.0*/7.0* Linux 2.6 or later, Android 2.3 or later	Windows XP/ Vista/ 7/ 8, Windows CE5.0*/ 6.0*/ 7.0* Linux 2.6 or later, Android 2.3 or later
SIM Detection	•	•
GNSS	GPS/ GLONASS	GPS/ GLONASS
Firmware Update	via USB/ UART Interface	via USB/ UART Interface
Electrical Features		
Supply Voltage Range	3.3~4.3 V, typ. 3.8V	3.0~3.6V, typ. 3.3V
Power Consumption	20uA@ Power off 3mA@ Sleep typ.	5.5mA@ Sleep typ.
Certifications		
Certifications	CCC/ CE/ NAL/ TA/ GCF*/ KC*/ SKT*/ NCC*	CCC/ CE/ NAL/ TA/ GCF*/ KC*/ SKT*/ NCC*
Recommended Applications		
Recommended Applications	Telematics, Smart Metering, Mobile POS Terminal, Gateway, Security, Tracking and Tracing, Remote Maintenance and Control, Networking, Mobile Computing, Healthcare, etc.	

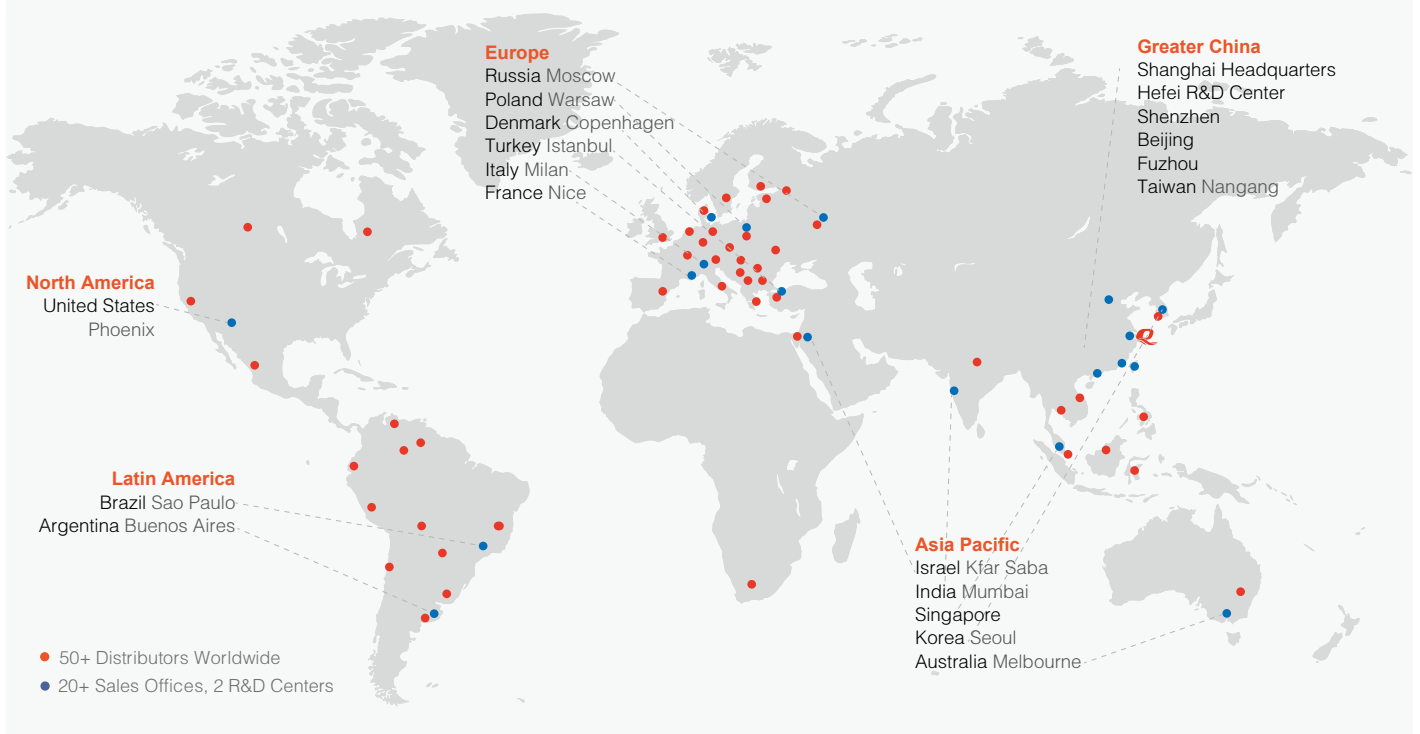
Note 1: Only supported in Telematics Version.

• & * Under development

Quectel GNSS Module Family

Product	Standalone Modules				Patch Antenna Modules		
	L20	L26	L70/ L70_R	L76/ L76B	L80/ L80-R	L86	
	Compatible		Compatible		Compatible		
Picture							
GNSS	GPS/ QZSS	GLONASS/ GPS/ QZSS	GPS/ QZSS	GLONASS/ GPS/ QZSS (L76) GPS/ BeiDou (L76B)	GPS/ QZSS	GLONASS/GPS/QZSS	
Packaging	24-pin LCC	24-pin LCC	18-pin LCC	18-pin LCC	12-pin LCC	12-pin LCC	
Dimensions	12.2 × 16.0 × 2.4 mm	12.2 × 16.0 × 2.4 mm	10.1 × 9.7 × 2.5 mm	10.1 × 9.7 × 2.5 mm	16.0 × 16.0 × 6.45 mm	18.4 × 18.4 × 6.45 mm	
Weight (approx.)	1.0 g	1.0 g	0.6 g	0.6 g	6.0 g	7.6 g	
Temperature Operation	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C	
Range Storage	-45 °C to +125 °C	-45 °C to +125 °C	-45 °C to +125 °C	-45 °C to +125 °C	-45 °C to +125 °C	-45 °C to +125 °C	
General Features							
Chip Solution	SiRF IV	MT3333	MT3339 (L70) MT3337 (L70-R)	MT3333	MT3339 (L80) MT3337 (L80-R)	MT3333	
L1 Band Receiver (C/A Code)	Channel Number	48 Channels	33 Track/ 99 Acq.	22 Track/ 66 Acq.	33 Track/ 99 Acq.	22 Track/ 66 Acq.	33 Track/ 99 Acq.
	SBAS	WAAS/ EGNOS	WAAS/ EGNOS/ MSAS/ GAGAN	WAAS/ EGNOS/ MSAS/ GAGAN	WAAS/ EGNOS/ MSAS/ GAGAN	WAAS/ EGNOS/ MSAS/ GAGAN	WAAS/ EGNOS/ MSAS/ GAGAN
Sensitivity	Autonomous Acquisition	-148dBm	-148dBm	-148dBm	-148dBm	-148dBm	-148dBm
	Reacquisition	-160dBm	-160dBm	-160dBm	-160dBm (L76) -163dBm (L76B)	-160dBm	-160dBm
	Tracking	-163dBm	-167dBm	-165dBm	-165dBm	-165dBm	-165dBm
TTFF (Time To First Fix)	Cold Start	<35s, Autonomous 25s typ. With CGEE	<35s, Autonomous <15s, With EASY	<35s, Autonomous <15s, With EASY	<35s, Autonomous <15s, With EASY	<35s, Autonomous <15s, With EASY	<35s, Autonomous <15s, With EASY
	Warm Start	<35s, Autonomous 10s typ. With CGEE	<30s, Autonomous <5s, With EASY	<30s, Autonomous <5s, With EASY	<30s, Autonomous <5s, With EASY	<30s, Autonomous <5s, With EASY	<30s, Autonomous <5s, With EASY
	Hot Start	<1s	<1s	<1s	<1s	<1s	<1s
Position Accuracy (autonomous)	<2.5m CEP	<2.5m CEP	<2.5m CEP	<2.5m CEP	<2.5m CEP	<2.5m CEP	
Velocity Accuracy (without aid)	<0.01m/s	<0.1m/s	<0.1m/s	<0.1m/s	<0.1m/s	<0.1m/s	
Maximum Acceleration Accuracy (without aid)	<0.1 m/s ²	<0.1 m/s ²	<0.1 m/s ²	<0.1 m/s ²	<0.1 m/s ²	<0.1 m/s ²	
Timing Accuracy	<500ns	<10ns	<10ns	<10ns	<10ns	<10ns	
Max Update Rate	5Hz	10Hz	10Hz/ 5Hz	10Hz	10Hz/ 5Hz	10Hz	
Baud Rate(default)	4800bps	9600bps	9600bps	9600bps	9600bps	9600bps	
Anti-jamming	•	•	•	•	•	•	
Electrical Data							
Power Supply	2.0V to 3.6V	2.8V to 4.3V	2.8V to 4.3V	2.8V to 4.3V	3.0V to 4.3V	3.0V to 4.3V	
I/O Voltage	2.0V to 3.6V	2.7V to 2.9V	2.7V to 2.9V	2.7V to 2.9V	2.7V to 2.9V	2.7V to 2.9V	
Power Consumption	Acquisition	39mA	29mA (GPS+GLONASS) 26mA(GPS)	18mA (L70) 16mA (L70-R)	25mA (GPS+GLONASS) 21mA (GPS) 23mA (GPS+BeiDou)	25mA	30mA (GPS+GLONASS)
	Tracking	36mA	21mA (GPS+GLONASS) 18mA (GPS)	12mA (L70) 13mA (L70-R)	18mA (GPS+GLONASS) 15mA (GPS) 18mA (GPS+BeiDou)	20mA	26mA (GPS+GLONASS)
	Backup	33uA	7uA	7uA(L70)/ 8uA (L70-R)	7uA	7uA	7uA
Interfaces							
UART	•	•	•	•	•	•	
IIC (NMEA)							
DR IIC	•						
Reset		•	•	•	•	•	
Time Pulse	•	•	•	•	•	•	
Antenna							
Antenna Detection		Short circuit detection and protection Open circuit detection			Short circuit detection and protection Open circuit detection	Short circuit detection and protection Open circuit detection	
Antenna Type	Active or passive	Active or passive	Active or passive	Active or passive	Embedded patch antenna or external active antenna	Embedded patch antenna or external active antenna	
Antenna Power	External or internal	External or internal	External or internal	External or internal	Internal	Internal	
Certifications							
Certifications	CE	CE	CE/ FCC	CE	CE	CE	
Recommended Applications							
Recommended Applications	Vehicle Tracking and Tracing, Pet Tracking, Asset Tracking, Connected PND, GIS Application, Security, Industrial PDA, Digital Camera, etc.						

Global Presence



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