

GNSS SPECIFICATIONS			
MAX-7Q		GPS	GLONASS
Frequency band		56x u-blox 7 engine channels GPS/QZSS L1C/A, GLONASS L1FDMA, SBAS (WAAS, EGNOS, MSAS)	
Horizontal positioning accuracy	Autonomous	2.5m CEP	4.0m CEP
	SBAS	2.0m CEP	-
Max navigation update rate		10Hz	10Hz
Time-To-First-Fix	Cold starts	29s	30s
	Warm starts	28s	25s
	Hot starts	1s	1s
	Aided starts	5s	-
Sensitivity	Tracking and navigating	-161dBm	-158 dBm
	Re-acquisition	-160 dBm	-156 dBm
	Cold starts	-148 dBm	-140 dBm
	Warm starts	-148 dBm	-145 dBm
	Hot starts	-156 dBm	-156 dBm
PPS accuracy	RMS	30ns	50ns
	99%	60ns	100ns
PPS frequency		0.25Hz..10M Hz (configurable)	
Velocity accuracy		0.1m/s	
Heading accuracy		0.5 degree	
Operational limits		Acceleration (max): 4g	
		Altitude (max): 50000m	
		Velocity (max): 500m/s	
OTHER SPECIFICATIONS			
Communication interface		UART (4800~921600bps, 9600bps by default), I2C (max 400KHz)	
Update rate		1Hz (default), 10Hz (max)	
Protocol		NMEA 0183 Version 2.3 (V3.0 compatible), UBX, RTCM 2.3	
Power supply		5V	
Overall current		<37mA @5V (Continue mode)	
Module current		17.5mA @3V (Continue mode, tracking status)	
Operating temperature		-40°C ~ 85°C	
Dimensions		65mm × 30.5mm	