A new generation GPS M8N,with low power consumption and high precision, the ultimate accuracy is 0.6 meters, actually almost 0.9 meters, greater than the previous generation 7N 1.4-1.6 meters accuracy,support GPS/QZSS L1 C/A, GLONASS L10F, BeiDou B1 protocol and mode or more.

GPS Chip parameters:

Receiver type 72-channel u-blox M8 engine
GPS/QZSS L1 C/A, GLONASS L10F, BeiDou B1
SBAS L1 C/A: WAAS, EGNOS, MSAS
Galileo-ready E1B/C (M8N)
Nav. update rate1 Single GNSS: up to 18 HZ
Concurrent GNSS: up to 10 Hz
Position accuracy2 2.0 m CEP
Sensitivity2 Tracking & Nav: –167 dBm
Cold starts: –148 dBm
Hot starts: –156 dBm
Assistance AssistNow GNSS Online
AssistNow GNSS Offline (up to 35 days)3
AssistNow Autonomous (up to 6 days)
OMA SUPL & 3GPP compliant
Oscillator TCXO (M8N/Q),
Crystal (M8M)
RTC crystal Built-In
Noise figure On-chip LNA (M8M). Extra LNA for
lowest noise figure (M8N/Q)
Anti jamming Active CW detection and removal. Extra
onboard SAW band pass filter (M8N/Q)
Supported antennas Active and passive
Odometer Travelled distance
Data-logger For position, velocity, and time (M8N)
Operating temp. –40° C to 85° C
Storage temp. –40° C to 85° C (M8N/Q)
–40° C to 105° C (-M8M)
RoHS compliant (lead-free)
Qualification according to ISO 16750

Manufactured and fully tested in ISO/TS 16949 certified production sites
Uses M8 chips qualified according to AEC-Q100
Supply voltage 1.65 V to 3.6 V (M8M)
2.7 V to 3.6 V (M8N/Q)
Power consumption4 23 mA @ 3.0 V (continuous)
5 mA @ 3.0 V Power Save Mode
(1 Hz, GPS mode only)
Backup Supply 1.4 to 3.6 V
Note: The M8N GPS firmware is fixed , so it is no need to revise firmware after you recieved. if you mind, please do not buy.