

## S660N

### Specification

|                         |                               |                                                  |
|-------------------------|-------------------------------|--------------------------------------------------|
| <b>GNSS performance</b> | Channels                      | 336, 692 (optional)                              |
|                         | GPS                           | L1, L2C, L2P, L5                                 |
|                         | GLONASS                       | L1, L2, L3                                       |
|                         | BDS                           | B1, B2, B3 (Optional)                            |
|                         | GALILEO                       | E1, E5A, E5B, E5AltBOC                           |
|                         | SBAS                          | L1 C/A, L5<br>QZSS, WAAS, MSAS, EGNOS, GAGAN     |
|                         | L-Band                        | Trimble RTX                                      |
|                         | Positioning output rate       | 1Hz, 2Hz, 5Hz, 10Hz, 20Hz, 50Hz (optional)       |
|                         | Initialization time           | <8 seconds                                       |
|                         | Initialization reliability    | >99.9%                                           |
| <b>Positioning</b>      | Static surveying              | Horizontal:0.0025m+1ppm;<br>Vertical:0.005m+1ppm |
|                         | Code differential positioning | Horizontal:0.25m+1ppm;<br>Vertical:0.50m+1ppm    |
|                         | Real-time kinematic surveying | Horizontal:0.0025m+1ppm;<br>Vertical:0.005m+1ppm |

|                         |                       |                                                                                              |
|-------------------------|-----------------------|----------------------------------------------------------------------------------------------|
| <b>precision</b>        | RTX                   | Horizontal:<0.1m (20-30min);<br>Vertical:<0.2m (20-30min)                                    |
|                         | SBAS positioning      | --                                                                                           |
|                         | xFill                 |                                                                                              |
|                         | IMU tilt angle        |                                                                                              |
|                         | Single positioning    | Horizontal:<1.0m; Vertical:<1.5m                                                             |
| <b>User interaction</b> | Operating system      | Linux                                                                                        |
|                         | Buttons               | Single button operation                                                                      |
|                         | LCD                   | --                                                                                           |
|                         | Indicators            | 4 indicate lights                                                                            |
|                         | Web UI                | Freely to configure and monitor the receiver by accessing to the web server via WiFi and USB |
|                         | Voice guide           | --                                                                                           |
|                         | Secondary development | --                                                                                           |
|                         | Data cloud service    | --                                                                                           |
|                         | Dimension             | 115mm (L) × 115mm (W) × 40mm (H)                                                             |
|                         | Weight                | 540g (Internal battery included)                                                             |
|                         | Material              | Magnesium aluminum alloy shell                                                               |
|                         | Operating temperature | -30°C ~ +65°C                                                                                |

|                             |                          |                                                                |
|-----------------------------|--------------------------|----------------------------------------------------------------|
| <b>Hardware performance</b> | Storage temperature      | -30°C ~ +65°C                                                  |
|                             | Humidity                 | 5% ~ 95% R.H. non-condensing                                   |
|                             | Waterproof/<br>Dustproof | Test to IP67 standard                                          |
|                             | Shock and vibration      | Withstand drop from 1.5m to concrete                           |
|                             | Power Supply             | --                                                             |
|                             | Battery                  | 6800mAh, Li-ion battery built in, 3.7V                         |
|                             | Battery                  | --                                                             |
|                             | Battery life             | Typically 8 hrs or more                                        |
| <b>Communications</b>       | I/O port                 | LEMO port (Enable to switch to Ethernet port and OTG function) |
|                             | Wireless modem           | --                                                             |
|                             | Frequency Range          | --                                                             |
|                             | Communication Protocol   | --                                                             |
|                             | Cellular Mobile Network  | --                                                             |
|                             | Double Module            | Bluetooth V2.1/ Bluetooth V4.0, support EDR                    |
|                             | NFC Communication        | --                                                             |
|                             | External Devices         | --                                                             |

|                                       |                   |                                                                                                                                                                                                                                                                                                                                               |
|---------------------------------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>WIFI</b>                           | Standard          | 802.11 b/g standard                                                                                                                                                                                                                                                                                                                           |
|                                       | WIFI Hotspot      | The WIFI hotspot allows any mobile terminal to connect and access to the internal webserver for the control and monitor                                                                                                                                                                                                                       |
|                                       | WIFI data link    | To work as the datalink that receiver is able to broadcast and receive differential data via WIFI                                                                                                                                                                                                                                             |
| <b>Data storage/<br/>Transmission</b> | Data Storage      | 8GB SSD (Solid State Disk)<br>internal memory, 1Hz, 2Hz, 5Hz, 10Hz, 20Hz sampling rate                                                                                                                                                                                                                                                        |
|                                       | Data Transmission | --                                                                                                                                                                                                                                                                                                                                            |
|                                       | Data Format       | Static data format: STH, Rinex2.x and Rinex3.x<br>Reference I/O: CMR, CMR+, sCMRx, RTCM 2.x, RTCM 3.0, RTCM 3.1, RTCM 3.2<br>Standard NMEA-0183: GSV, AVR, RMC, HDT, VGK, VHD, ROT, GGK, GGA, GSA, ZDA, VTG, GST, PJT, PJK, BPQ, GLL, GRS; Extended NMEA-0183: PSIC PST, GSI, BSI, VCV, TRA, SLB, EDP, TPI, TRI, VCM, STA, DEV, AAT, REC, DAL |
| <b>Inertial sensing system</b>        | Tilt survey       | --                                                                                                                                                                                                                                                                                                                                            |
|                                       | Electronic bubble | --                                                                                                                                                                                                                                                                                                                                            |

|  |             |    |
|--|-------------|----|
|  | Thermometer | -- |
|--|-------------|----|

**Note:** all information above is subject to change without any prior notice.