



# REACH M2 | M+

RTK GNSS modules for precise navigation and UAV mapping

# Reach M+ Reach M2

## Comparison chart



| Mechanical                                 | M+                                                                      | M2                                                                                     |
|--------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| Size                                       | 56.4 x 45.3 x 14.6 mm                                                   | 56.4 x 45.3 x 14.6 mm                                                                  |
| Weight                                     | 20g                                                                     | 20g                                                                                    |
| Operating temperature                      | -20...+65°C                                                             | -20...+65°C                                                                            |
| Electrical                                 |                                                                         |                                                                                        |
| Input voltage on USB and JST-GH connectors | 4.75–5.5V                                                               | 4.75–5.5V                                                                              |
| Antenna DC bias                            | 3.3V                                                                    | 3.3V                                                                                   |
| Average current consumption at 5V          | 200mA                                                                   | 200mA                                                                                  |
| GNSS                                       |                                                                         |                                                                                        |
| Signals                                    | GPS/QZSS L1C/A,<br>GLONASS L1OF,<br>BeiDou B1I,<br>Galileo E1-B/C, SBAS | GPS/QZSS L1C/A, L2C,<br>GLONASS L1OF, L2OF,<br>BeiDou B1I, B2I,<br>Galileo E1-B/C, E5b |
| Update rate                                | 14Hz GPS / 5Hz GNSS                                                     | 20Hz GPS / 5Hz GNSS                                                                    |
| Tracking channels                          | 72                                                                      | 184                                                                                    |
| IMU                                        | 9DOF                                                                    | 9DOF                                                                                   |
| Connectivity                               |                                                                         |                                                                                        |
| Interfaces                                 | USB, UART, Event                                                        | USB, UART, Event                                                                       |
| Wi-Fi                                      | 802.11 b/g/n                                                            | 802.11 b/g/n                                                                           |
| Bluetooth                                  | 4.0/2.1 EDR                                                             | 4.0/2.1 EDR                                                                            |
| Data                                       |                                                                         |                                                                                        |
| Position output                            | NMEA, LLH/XYZ<br>(RMC, GGA, GSA, GSV)                                   | NMEA, LLH/XYZ<br>(RMC, GGA, GSA, GSV)                                                  |
| Correction input                           | RTCM2, RTCM3                                                            | RTCM2, RTCM3                                                                           |
| Internal storage                           | 8GB                                                                     | 16GB                                                                                   |
| Logs                                       | RINEX2.X, RINEX3.X                                                      | RINEX2.X, RINEX3.X                                                                     |
| Positioning                                |                                                                         |                                                                                        |
| Static                                     | H: 5 mm + 1ppm, V: 10mm + 2ppm                                          | H: 4 mm + 0.5 ppm, V: 8 mm + 1 ppm                                                     |
| Kinematic                                  | H: 7 mm + 1ppm, V: 14 mm + 2ppm                                         | H: 7 mm + 1 ppm, V: 14 mm + 1 ppm                                                      |

More information at [emlid.com](http://emlid.com)

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