MicroStrain Sensing Product Datasheet

3DMRTK
Cellular RTK Correction Modem

The **3DM**RTK features easy to use real time Kinematic (RTK) correction data to be utilized by the **3DM**GQ7-GNSS/INS.

It provides the simplicity of a cellular connection to our SensorCloud RTK base station network, replacing traditional radio-based stations. With RTK corrections, the **3DM**GQ7 can achieve centimeter-level positional accuracy.

Combine the **3DM**RTK with our SensorCloud RTK network service and **3DM**GQ7-GNSS/INS for a complete navigation system.

FEATURES AND BENEFITS

- Supports industry-standard NMEA and RTCM 3.1 protocols
- Network RTK support bundled with cellular data plan at one low price
- Seamless integration with **3DM**GQ7
- Easy set up – begin receiving RTK corrections immediately after device activation
- Robust RS232 and USB interfaces
- Compact and rugged construction

APPLICATIONS

- Autonomous vehicle (AV) operation
- Wheeled and legged robotics
- Simultaneous localization and mapping (SLAM)
- Beyond visual line of sight (BVLOS) navigation

1.85 [47.1]

2.56 [65.1]

.56 [14.2]

ENGINEERING *YOUR* SUCCESS.
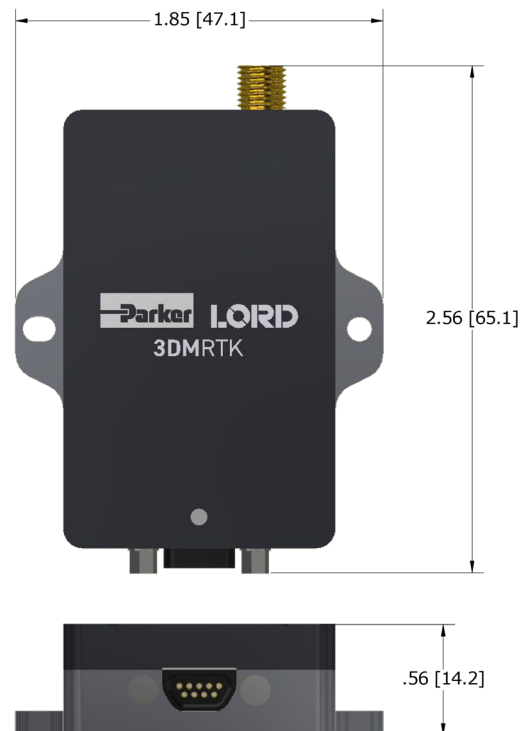
Cellular RTK Correction Modem

Specifications

(The following specification results are typical when paired with the **3DM**GQ7)

Data output rate	1 Hz
Interface	Micro-D9, RS 232
Protocols	MIP, RTCM 3.1, NMEA
Cellular Network	Cellular Coverage: Global*
Voltage	5 to 16 VDC
Power	1.0W (typical), 2.0W (max)
Size	47 mm x 65 mm x 14.25 mm
Weight	46g
Certifications	FCC, IC, CE, PTCRB

*Some regional restrictions apply. Coverage only where LTE CAT-M/2G deployment is available. Please see our **RTK webpage** for details.

System Architecture
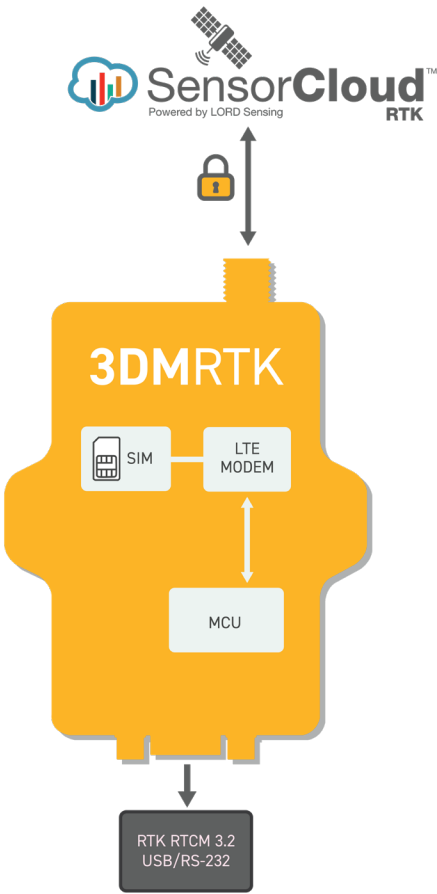
Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[MicroStrain by HBK](#):
  [3DMRTK](#)