



Features and Benefits

- 4G LTE and 5G connectivity with speeds up to 1 Gbps download and 400 Mbps upload
- Connects to Commercial and Private
 LTE Networks
- Dual SIM
- WLAN 802.11a/b/g/n/ac
- Bluetooth® 5
- Wireless Personal Area Network (WPAN) 802.15.4
- Intergrated GNSS, Accelerometer, Gyroscope and Magnetometer

Rugged Cellular Gateway

The Rugged Cellular Gateway is a simple to use, small form factor, handheld device that provides secure communication via different interfaces backhauled over a private or commercial LTE network.

Devices with WLAN capabilities can be connected to provide a secure transfer of data.

When used with Cubic's Cellular Base Station a private LTE network can be established operating in non 3GPP frequency bands. Using these non-standard frequencies means that interference from existing commercial 3G and 4G systems is mitigated.

If the private LTE network connection is lost, then the Rugged Cellular Gateway will fall back to commercial LTE networks by utilizing the dual SIM functionality of the device.

The unit also has other means of connecting devices and peripherals via infrared, Bluetooth[®], Wireless Personal Area Network (WPAN) and/or USB.

CUBIC

Specifications

| Cellular Connectivity | |
|---------------------------|--|
| Technology | HSPA (3G), LTE (4G), 5G SA and NSA |
| 3G Bands (HSPA+/WCDMA) | B1, B2, B3, B4, B5, B6, B8, B9, B19 |
| 4G Bands | B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B29, B302, B32, B34, B38, B39, B40, B41, B42, B463, B48, B66, B71 |
| 5G Sub-6GHz Bands | n1, n2, n3, n5, n28, n41, n66, n71, n77, n78, n79 |
| Speed | Up to 1 Gbps Download Up to 400 Mbps Upload |

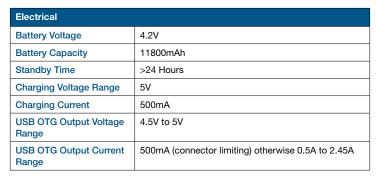
| Wireless Connectivity | |
|-----------------------|---|
| WLAN | 802.11a/b/g/n/ac Single Input Single Output |
| Bluetooth | Bluetooth® 5 |
| GNSS | GPS, GLONASS, Beidou, Galileo |
| WPAN | 802.15.4 |

| System | |
|------------------|--|
| Operating System | Yocto Linux |
| Processor | i.MX8M Mini |
| Cores | 4 |
| Processor Speed | 1.6 GHz |
| RAM | 4 GB |
| Internal Storage | 16 GB eMMC 128Mb SPI Flash 32Kb EEPROM |
| External Storage | microSD (uses shared SIM slot) |
| SIM Card Slots | X2 (when no SD card is present) |
| USB | 2.0 OTG |
| TPM Version | 2.0 |

| Sensors & Interaction | |
|-----------------------|--|
| Sensors | Accelerometer, Gyroscope, Magnetometer, Temperature Sensor, Ambient Light Sensor. |
| Real-Time Clock | Provides Year, Month, Day, Weekday, hours, minutes, seconds and 100th seconds |
| Haptic Feedback | Licensed Immersion TouchSense® 2200 Features Speed 10000 ±2500 RPM |

Gateway Components

- 1. Status LEDs
- 2. Channel Switch Button
- 3. Power Switch Button
- 4. Belt Clip



| Mechanical | |
|--------------------------------|---|
| Form Factor | Standalone Enclosure |
| Cooling | Passive |
| Operating Temperature Range | -20°C to 45°C ambient |
| Storage Temperature Range | -40°C to 70°C ambient |
| Humidity | 0 – 95% Relative Humidity (non-condensing) |
| Solar Radiation | 1120W/m2 |
| Shock and Vibration | MIL STD-810G |
| MTBF | >20,000 hours at 25°C |
| Ingress Protection Rating | IP67 |
| Dimensions | Height 146mm x Width 90mm x Depth 34mm Height 5.75in x Width 3.54in x Depth 1.33in |
| Weight | 450g / 0.99lbs |

| Compliance & Certification | | |
|--------------------------------|--|--|
| Cellular | ETSI TS136 101 (in commercial frequencies) Pre-compliance for S-Band deviation from the specification. | |
| Safety | IEC62368-1 Edition 2 2014 or later | |
| Electromagnetic Compliance | 0EN 301 489 | |
| Specific Absorption Rate (SAR) | 1EN 50360:2017 | |
| Battery | UN38.3, IEC62133 | |



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Cubic Mission and Performance Solutions www.cubic.com/mc2

12 Villiers House, Lansdown Court, Chippenham, Wiltshire SN14 6RZ United Kingdom Tel: +44 1642 636888 21580 Beaumeade Circle #230, Ashburn, VA 20147 United States of America Tel: +1 858-505-2445