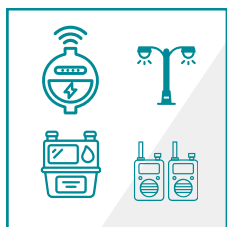# Pyxis LTE Router

## About

Ruggedized to meet utility requirements, the Pyxis LTE brings resilient LTE-M connectivity right to the edge of the grid. Supporting a range of utility applications such as SCADA, DER integration and Distribution Automation, Pyxis LTE is the ideal endpoint for existing pLTE networks, or Ubiik's freeRAN™ and goRAN™ pLTE systems. The Pyxis LTE operates in a range of frequency bands across both private and public LTE networks. With its powerful Qualcomm System-on-Chip facilitating formidable edge computing capability and enhanced security features, the Pyxis LTE is the ultimate choice for future-proof utility networks.

**End Terminals**

**Pyxis LTE**

private or
public LTE

*free*RAN™
LTE Base Station

**for license-** *free* **spectrum**

**or**

**Built-in EPC**

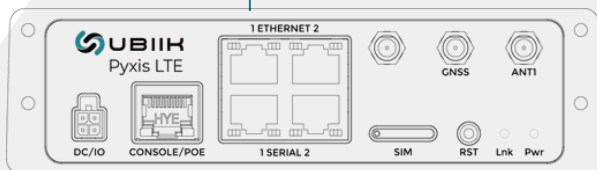*go*RAN™
LTE Base Station

***for licensed bands***

**S1**

**External EPC**

**Contact Us**

info@ubiik.com

## Features

- Incorporates Qualcomm's System-on-Chip IPQ5018, which includes a dual-core ARM Cortex® A53 CPU, bringing higher security, edge computing capability and lower power consumption.
- Ideal solution for connectivity to capacitor banks, reclosers, switches and a range of DA and DER grid assets.
- Band 106 model supports high output power (28 dBm) in B106 LTE-M thanks to Ubiik's breakthrough Maverick 220 high power LTE-M module.

## Specifications

| | | |
|---|---|---|
| Standard | LTE-M | |
| Platform | Dual-core ARM 64-bit A53 @ 1.0GHz Processor<br>8GB eMMC + 512MB DRAM | |
| Frequency Band | ISM-FDD (DL: 925-928 MHz, UL: 902-915 MHz)<br>ISM-TDD (DL/UL 902-928 MHz)<br>B55 (DL/UL: 1800-1830 MHz)<br>B107 (DL: 1820-1830 MHz, UL: 1800-1810 MHz)<br>B20 (DL: 791-821 MHz, UL: 832- 862 MHz)<br>B87 (DL: 420-425 MHz, UL: 410-415 MHz)<br>B88 (DL: 422-427 MHz, UL: 412-417 MHz) | B31<br>(DL: 462.5-467.5 MHz,<br>UL: 452.5-457.5 MHz)<br><br>B72 (DL: 461-466 MHz,<br>UL: 451-456 MHz) |
| Tx Power | 23 dBm maximum | 26 dBm maximum |
| Modulation | QPSK, 16QAM | |
| Power Supply | PoE IEEE 802.3 AF/AT<br>9-60 V (nominal 12V) | |
| Antenna Connections | 1 x SMA connector: LTE-M<br>1 x GNSS<br>1 x SMA connector: (reserved) | |
| Indicators | 1 x LED for system power<br>1 x LED for network connection status | |
| Interfaces | 2 x Ethernet -10/100 Base-T (RJ45 connectors)<br>2 x RS232/485 (RJ45 connectors)<br>1 x Console Port or 802.3 at PoE (RJ45)<br>GPIO (2 pins)<br>DC_In (2 pins)<br>1 x Nano SIM<br>1 x Reset Button | |
| Physical and environmental | Dimensions (LxWxH): 5" x 6" x 1.75" (127 x 150 x 44 mm)<br>Weight: 1.70 lbs (770g) (TBC)<br>Operating Temperature: -40°F to +149°F (-40°C to +65°C )<br>Storage Temperature: -40°F to +185°F (-40°C to +85°C)<br>Humidity: 5% to 90% non-condensing | |

**Scan for more info**