

nodeMINI

QUICK DATA SHEET - Edge Cellular 4G/LTE IIoT Gateways

AMPLIFIED ENGINEERING

Unit 3, 2A Brodie Hall Drive
Bentley WA 6102
Australia

ABN: 44127163035



Compute

- CPU: NXP i.MX9352 dual-core ARM Cortex-A55, 1.7GHZ
- REAL TIME CO-PROCESSOR: ARM Cortex-M33, 250Mhz
- 2GB, LPDDR4 RAM
- 32GB eMMC Flash Storage

Dimensions & Power

Dimensions	- 83mm x 55mm x 28mm
Weight	- 170g
Enclosure	- Aluminium Casing
Power Supply	- 12 to 24 VDC (-20%/+20%)

Operating Temperatures

Standard	- 0 to 60 degree celsius
Industrial*	- minus 40 to 80 degree celsius

Management & Customisations

O/S	- Linux (Debian 11)
Programming	- Python & LUA API libraries & support
Networking	- Dynamic DNS - Designed for maximum uptime - NetMgr WWAN connection timeouts - End-to-End PING test & reboot
Cloud/ Server Connections	- MQTT (with TLS Security) - AWS IoT Core - Azure IoT Hub - Google Cloud Platform - Ubidots
Additional Features	- Web menu quick configurations - On board SQL (data buffer & processing) - REST API support - Remote access SSH Management

Networking

LAN	- 1 x Gbit Ethernet Ports, RJ45
Cellular	- 4G/LTE CAT4 cellular module, Telit LE910C4 Worldwide LTE, UMTS/HSPA
WiFi & Bluetooth*	- 802.11ax WiFi 6 & Bluetooth 5.4 BLE
GNSS	- GPS (mutually exclusive with WiFi)
Security	- Secure boot with i.MX93 AHAB module - TPM 2.0, Infineon SLB9673

I/O & Supported Protocols

Modbus TCP	- 1 x Gbit Ethernet Port, RJ45
Modbus RTU	- 1 x Serial RS485, 2 wire port (isolated terminal block connector)
CAN Bus <i>FD/ J1939/OBD2</i>	- 1 x CAN-FD port
Digital I/O*	- Optional 3xIN & 3xOUT Digital I/O
USB	- 1 x USB 2.0 type-C connector

In the Box

- 1 x nodeMINI gateway

Accessories

- Power supply unit (support for PoE available)
- Antenna (for cellular, WiFi & GPS)
- Mounting (for din rail, vertical or horizontal mounts)

Warranty & Availability

- 5 years manufacturer warranty

* Indicates configurable options. Do note that some options may result in longer lead times.