

nodeG5

**AMPLIFIED
ENGINEERING**

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EDGE IOT GATEWAY - QUICK DATA SHEET



CPU CORE, MEMORY & STORAGE

- NXP i.MX8M Plus Quad, quad-core ARM Cortex-A53, 1.8GHZ
- NXP AI/ML Neural Processing Unit; 2.3 - 4 TOPS
- 1GB - 8GB, LPDDR4 RAM
- 16GB - 128GB eMMC Flash Storage

OPERATING TEMPERATURES

- | | |
|------------|---------------------------------|
| Commercial | - 0 to 60 degree celsius |
| Industrial | - minus 40 to 80 degree celsius |

MECHANICAL & POWER SUPPLY

- | | |
|--------------|-----------------------|
| Dimensions | - 132mm x 84mm x 25mm |
| Enclosure | - Aluminium Casing |
| Weight | - 550g |
| Power Supply | - 8 to 36 VDC |

MANAGEMENT

- | | |
|-------------------|---|
| O/S | - Debian Linux supporting Docker |
| Cloud Clients | - AWS IoT Core, Greengrass, Sitewise
- Azure IoT Hub, IoT Central
- Ubidots
- MQTT with TLS Security |
| Scripting | - Python & LUA API libraries available |
| Web Config | - Quick set up & configuration pages
- Integrated statistical IoT Data features i.e. mean, average data |
| Remote Management | - SSH
- OTA firmware updates |

NETWORK

- | | |
|------------------|--|
| LAN | - 2 x 1000Mbps Ethernet Ports, RJ45 Connectors |
| Cellular | - 4G/LTE CAT4 cellular module, Quectel EC25 (available in EU or US band) |
| WiFi & Bluetooth | - Optional 802.11ax WiFi & Bluetooth 5.3 BLE with Intel WiFi 6E AX210 module |
| GNSS | - GPS with Quectel EC25 module |

I/O

- | | |
|-------|-----------------------------------|
| RS485 | - 2 x RS485 ports (half duplex) |
| CAN | - 2 x CAN bus port |
| USB | - 2 x USB 2.0, 1 x USB3.0; Type A |

DISPLAY CONNECTIVITY

- DVI-D, up to 1080p60

PERIPHERALS INCLUDED

- Power supply unit with International adapters
- 1 x GSM antenna
- 2 x WiFi antenna (for WiFi & BLE models)

WARRANTY

- 5 years manufacturer warranty