

# nodeG5

QUICK DATA SHEET - Edge CAN & Modbus IIoT Gateways

## AMPLIFIED ENGINEERING

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### Compute

- NXP i.MX8M Plus Quad, quad-core ARM Cortex-A53, 1.8GHZ
- NXP AI/ML Neural Processing Unit, up to 2.3 TOPS
- 2GB, LPDDR4 RAM
- 32GB eMMC Flash Storage

### Operating Temperature

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

### Dimensions & Power

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

### Management & Customisations

- |                         |  |
|-------------------------|--|
| O/S                     | - Linux (Debian 11)  |
| SDK                     | - Python & LUA API libraries & support   |
| Connectivity<br>Clients | - MQTT (with TLS Security)<br>- AWS IoT Core<br>- Azure IoT Hub<br>- Ubidots                           |
| Additional<br>Features  | - Web menu for quick configurations<br>- On board SQL (data buffer & processing)<br>- REST API support |
| Remote<br>Access        | - SSH Management<br>- OTA firmware updates   |

### Networking

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

### I/O & Protocols

- |              |  |
|--------------|--|
| USB          | - 2 x USB 2.0, 1 x USB3.0; Type A          |
| CAN*         | - Single or Dual CAN bus ports             |
| Modbus*      | - Single or Dual RS485 ports (half duplex) |
| Digital I/O* | - 4IN & 4OUT Digital I/O                   |

### Display

- DVI-D (HDMI), up to 1080p60

### Peripherals

- Power supply unit with International adapters
- Optional screwed mounting plate or DIN rail
- GSM antenna for cellular option orders\*
- Antenna for WiFi & BLE option orders\*
- Antenna for GPS option orders\*

### Warranty

- 5 years manufacturer warranty

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