



nodeG5 Edge MQTT Gateway

Supporting



Deploy edge or FOG compute with an IIoT gateway that supports python, docker & ML inferencing to monitor & manage CAN J1939/OBD2, OPC UA, Serial RS485, Modbus TCP/RTU, WiFi & Bluetooth industrial assets.

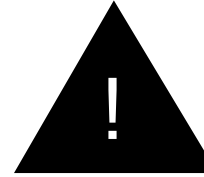
EDITION :
Feb 2025

DESIGNED IN AUSTRALIA.
ASSEMBLED IN SINGAPORE.

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SAFETY OF USE



ALL CONDITIONS

All specialist electronic devices must be operated with due care to avoid damage or injuries and should be installed and operated by a trained personnel.

DO NOT OPERATE THIS EQUIPMENT IN ENVIRONMENTS CONTAINING POTENTIALLY EXPLOSIVE GASES OR LIQUIDS, EXAMPLE, GAS STATIONS AND CHEMICAL PLANTS AND EXPLOSIVE STORES.

POWER SETUP

Inadequate current or dips in voltage may cause the device to fail to connect to data services even if the LEDs are lighted up. Supply over 40 VDC may cause permanent damage to the device.

SIM CARD

Never remove or insert SIM card when device has PWR switched in "ON" position. Damage caused to device or SIM in such case will not be warranted.

CONFIGURING THE ROUTER

Do not reboot/power-down the device until the writing process is acknowledged as completed.

ABOUT

1. 1 nodeG5 SPECIFICATIONS

CPU CORE

CPU	NXP i.MX8M Plus QuadLite, quad-core ARM Cortex-A53, 1.8GHz
NPU	AI/ML Neural Processing Unit, up to 2.3 TOPS
REAL TIME CO-PROCESSOR	ARM Cortex-M7, 800Mhz

STORAGE & MEMORY

RAM	2GB LPDDR4
Storage	32GB eMMC flash, soldered on-board

NETWORK

LAN	2x 1000Mbps Ethernet ports, RJ45
WIFI*	802.11ax WiFi
BLE*	Bluetooth 5.3 BLE
CELLULAR*	4G/LTE CAT4 cellular module, Quectel EG25-G (Global bands)
GNSS*	GPS

I/O

USB	2x USB2.0, 1x USB3.0 type-A connectors
RS485/ RS232*	Up to 2x RS485 (half-duplex)
CAN BUS*	Up to 2x CAN bus 2.0B ports
Digital I/O	Optional 4IN + 4OUT digital I/O
Debug	1x serial console via UART-to-USB bridge, micro-USB connector.

MANAGEMENT

NETWORK ROBUSTNESS	<ul style="list-style-type: none">· Designed for maximum uptime from available network· NetMgr WWAN connect timeouts· End-to-End PING connectivity testing with reboot
NETWORKING	<ul style="list-style-type: none">· Dynamic DNS
CLOUD MANAGEMENT	<ul style="list-style-type: none">· Azure IoT Hub· AWS IoT Core / Sitewise Client· Ubidots Client· MQTT Client with TLS Security· On-board Real Time Clock
INTEGRATED DATA FEATURES	<ul style="list-style-type: none">· Real Time Data Mode· FIFO Data Mode
REMOTE MANAGEMENT	<ul style="list-style-type: none">· SSH for Remote LINUX Management

USER CUSTOM PROGRAMMING

- Run Python (2.7.15 & 3.6.5)/ LUA/ BASH scripting
- Run containers on Debian Linux

WARRANTY

- 5 year manufacturer warranty

* denotes features that may be model specific

ABOUT

1.2 HARDWARE

PHYSICAL SPECIFICATIONS

DIMENSION

- L	132mm
- W	84mm
- H	25mm

WEIGHT	550g
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POWER

- 8 to 36 VDC, 3 - 10W
- 12 VDC typical

PERIPHERALS INCLUDED

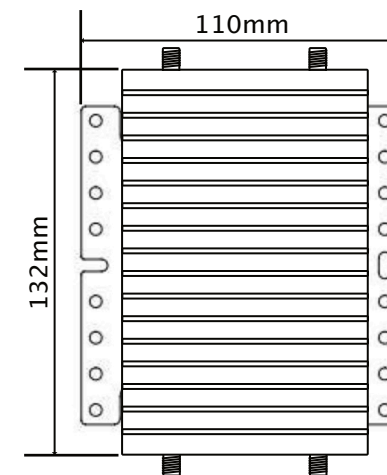
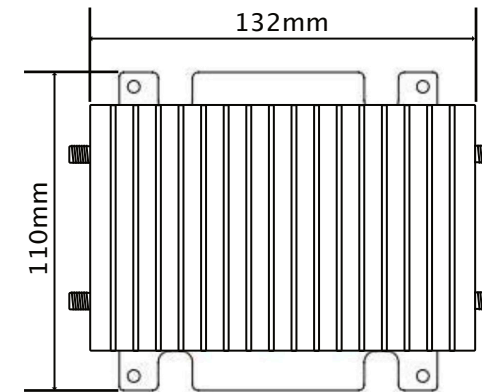
- Power Supply Unit with DC plug lock
- Input 100-240VAC 50/60Hz, 36W output 12VDC 3A
- Cellular rubber duck antenna with SMA connector
- CAT-5 LAN cable (3M)
- 2x11-pin dual-row mating plug for industrial I/O

OPTIONAL ACCESSORIES

- High-gain outdoor antenna (wall mounted)
- High-gain outdoor antenna (pole mounted)
- 2x 2.4GHz / 5GHz WiFi BLE Antennas
- Mounting plate

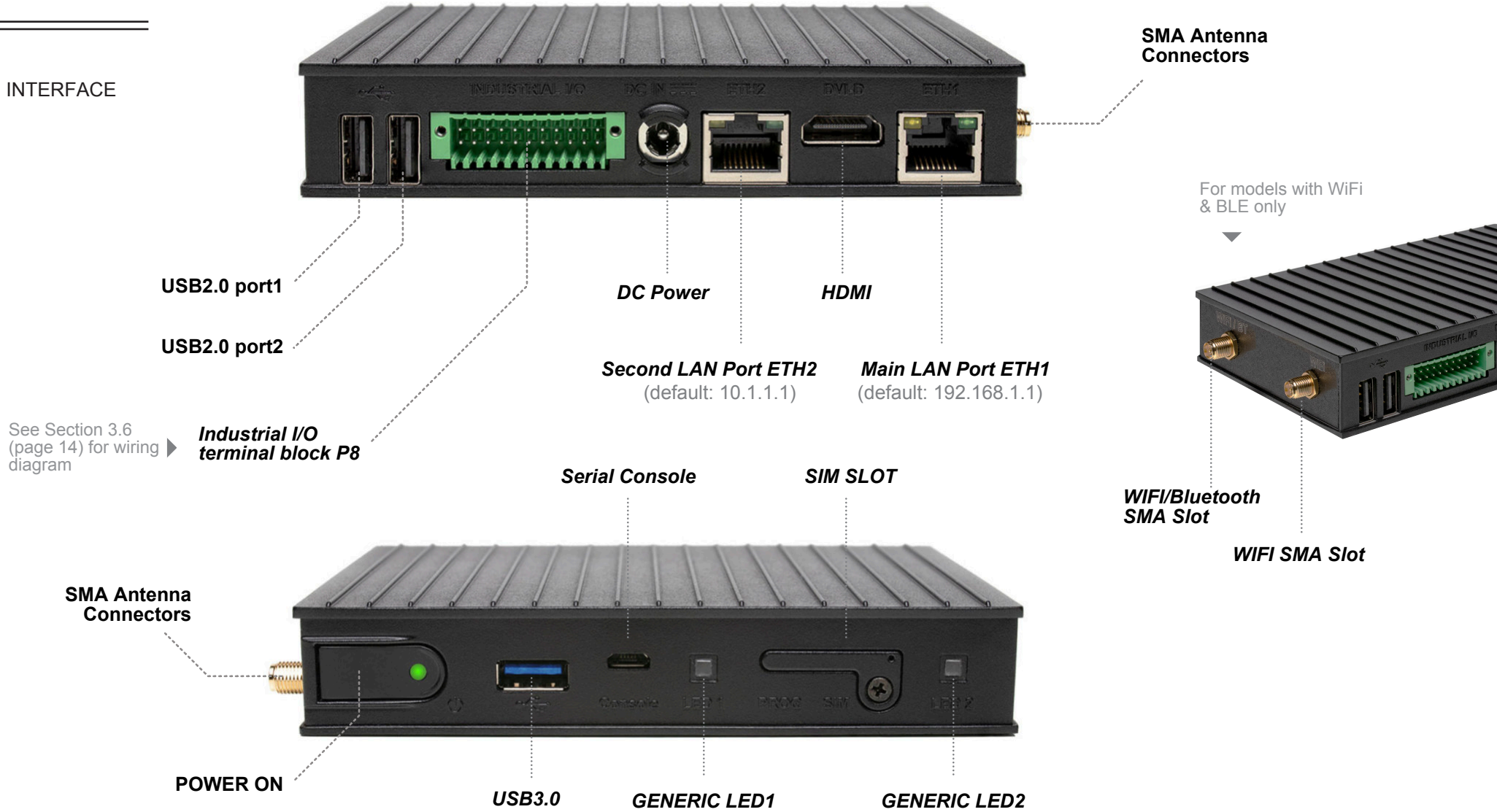
With the nodeG5 you have the option to install it using a mounting plate onto different surfaces.

The orientation and dimensions are as below:



ABOUT

1.3 BOARD INTERFACE



SETTING UP

2. 1 SIM INSTALLATION

INSERTING THE SIM CARD

STEP 1 of 5 - Unscrew the SIM cover and insert the micro SIM card into the slot.

WHAT YOU'LL NEED

1. 4G Data Enabled micro SIM Card
2. PC/Laptop with an Ethernet port
3. SIM card network details – APN/USERNAME/PASSWORD. You would need to get this information from your operator.



STEP 2 of 5 - Screw the cover back on and connect up the power adapter and the cellular antenna

SETTING UP

2. 2

LOGGING IN

For Security, after your first successful log in, you will be prompted to change your username & password.

Note: If you are using a SSH console:

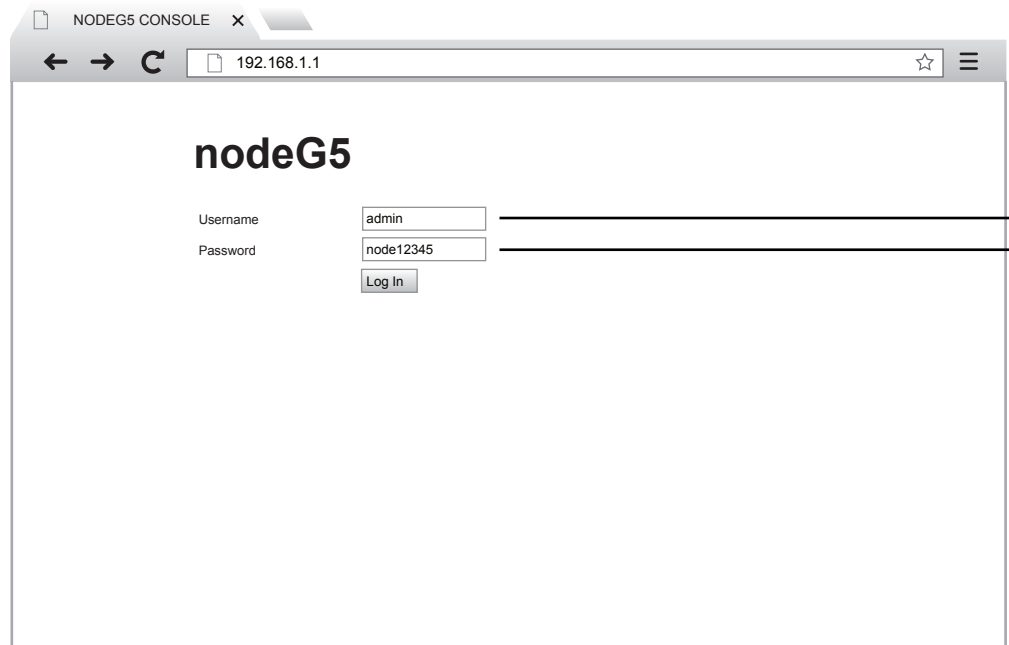
The login username is:
root

The default password remains as:
node12345

STEP 3 of 5 - Plug in the Ethernet cable from ETH1 to your pc and power up the nodeG5.

STEP 4 of 5 - Launch your browser and enter address as <https://192.168.1.1>

STEP 5 of 5 - Log in.



The default username is:
admin

The default password is:
node12345

CONFIGURATION

3. 1 QUICK START

The Quick Start tab brings together all the settings you need to establish an immediate cellular connection in one page.

nodeG5

MENU OPTIONS Basic settings for nodeG5 Gateway for Cellular Internet Access

- Quick Start
- Cellular WAN**
- Dynamic DNS
- Ethernet
- Wireless
- Serial / CAN

[G5 Quick Start Guide.pdf](#)

- IoT Hardware
- IoT Client

LAN (eth1) Port Settings

- LAN IP Address

 /

Cellular SIM Settings

- Management
- System Status
- Logout

APN

Dial Number

User Name (PAP/CHAP only)

Password (PAP/CHAP only)

SIM PIN Code (If required only)

You can find resource PDF links in our web config to help guide you through the different setups.

Key in the IP Address for your nodeG5 gateway here.

To connect the nodeG5 to a cellular network the following information is required. You will be able to get them from your internet service provider.

Click on UPDATE to save your settings.

Password Management

Current Password

New Password

Reconfirm New Password

For security, please ensure you change to a new password.

nodeG5

MENU OPTIONS **WAN & Cellular Settings**

- Quick Start
- Cellular WAN**
- Dynamic DNS
- Ethernet
- Wireless
- Serial / CAN

- IoT Hardware
- IoT Client

- Management
- System Status
- Logout

Primary WAN Interface

Cellular SIM Settings

APN

Dial Number

User Name (PAP/CHAP only)

Password (PAP/CHAP only)

SIM PIN Code (If required only)

Service

Assigned DNS

NetMgr WWAN Connect Timeout

Advanced Settings

Enable Reboot on PING failure

PING Remote Host

PING Interval

PING retries

Select your primary WAN interface from the options given. (Note that Wi-Fi is model dependent & you will need to complete the rest of your the settings in 'Wireless' tab.)

To connect the nodeG5 to a cellular network the following information is required. You will be able to get them from your internet service provider.

If you will like to override your network assigned DNS, you can input your own address here. Otherwise leave it blank.

Set the amount of minutes before the system does a reboot (0 = never)

To ensure reliable connectivity you can choose to PING an external IP address.

Add in a test IP address (i.e. Google at 8.8.8.8 T)

Input the PING interval & number of retries made before the system reboots.

When you have completed your settings on this page, click 'Update' to save them.

nodeG5

3.3 DYNAMIC DNS

The Dynamic DNS feature helps to keep a standard domain name pointed to the nodeG5 even if it is assigned IP changes during a reboot/reconnection.

WHAT YOU'LL NEED

1. A data sim card with a public IP [You can check this with your operator.]
2. An account with a dynamic DNS service provider like dyndns2, easydns or changeip

MENU OPTIONS

- Quick Start
- Cellular WAN
- Dynamic DNS**
- Ethernet
- Wireless
- Serial / CAN

- IoT Hardware
- IoT Client

- Management
- System Status
- Logout

Dynamic DNS Settings

- Enable DDNS Client
- Protocol Name [web]
- Device Hostname URL
- Username
- Password

ENABLED ▾
dyndns2
nodeg5.dyndns.org
your_username

UPDATE
ConfigDDClient

Enable or Disable the DYNDNS service.

Enter in the DYNDNS service you have registered with.

Enter in the FQDN (fully qualified domain name) of your host at DDNS provider.

Key in your DYNDNS Service Username & Password.

Click 'Update' to save your settings. Then click 'ConfigDDClient' to configure DNS services. The nodeG5 will connect to your account and point the domain to your IPV4 address after you reboot.

In the above example, you will be able to access your nodeG5 using the domain name "nodeG5.dyndns.org" on any regular browser.

nodeG5

3. 4 ETHERNET SETTINGS

MENU OPTIONS

- Quick Start
- Cellular WAN
- Dynamic DNS
- Ethernet**
- Wireless
- Serial / CAN
- IoT Hardware
- IoT Client
- Management
- System Status
- Logout

Ethernet Settings

eth1 (LAN) IP Address	<input type="text" value="192.168.1.1"/> / <input type="text" value="24"/>
DHCP Enable	<input type="button" value="Enabled"/>
DHCP Start	<input type="text" value="10"/> e.g. xxx.xxx.xxx Start
DHCP Limit	<input type="text" value="10"/> Limit no. of IPs to assign
eth0 (WAN) IP Address	<input type="text" value="192.168.8.200"/> / <input type="text" value="24"/>
eth0 Gateway	<input type="text" value="192.168.8.254"/>

Set up the IP Address of your LAN port.

Enable the nodeG5 to automatically assign IP addresses to your connected LAN devices.

This would be the starting address for connected devices. For the example here, the first connected device will be assigned the address of 192.168.1.10

This will limit the number of connected devices. For this example the last connected device will be assigned 192.168.1.20

Sets up the IP Address of your WAN port.

Sets up the IP Address of the nodeG5 gateway.

Once you have completed your settings click to save.

3. 5
WIRELESS
SETTINGS

nodeG5

MENU OPTIONS **Wireless Settings**

- Quick Start
- Cellular WAN
- Dynamic DNS
- Ethernet
- Wireless**
- Serial / CAN

- IoT Hardware
- IoT Client

- Management
- System Status
- Logout

Wireless Mode

Settings for 'Infrastructure Mode' : connects to your wi-fi router for internet access

SSID

Security Type

Password

IP Address /

Router IP

Settings for 'Access Point Mode' : connection point for your wi-fi enabled devices

SSID

Security Type

Password

IP Address for AP mode /

Select to enable (Note that Wi-Fi is model dependent.)

Key in the SSID of your wi-fi router.

Input the security settings to connect to your router.

Key in the IP address for your nodeG5, or leave this blank to let it be assigned via DHCP.

Create a SSID for your nodeG5 access point.

Input the security settings to authenticate a connection with devices.

Key in the IP address for your nodeG5 as access point.

When you have completed your settings on this page, click 'Update' to save them.

nodeG5

3.6
SERIAL, CAN & I/O
SETTINGS

MENU OPTIONS

- Quick Start
- Cellular WAN
- Dynamic DNS
- Ethernet
- Wireless
- Serial / CAN**
- IoT Hardware
- IoT Client
- Management
- System Status
- Logout

Serial / CAN Settings

Serial Port A Parameters

Speed E.g. 9600, 19200, 38400, 57600, 115200

Data Bits E.g. 7, 8

Parity

Stop Bits

Serial Port B Parameters

Speed E.g. 9600, 19200, 38400, 57600, 115200

Data Bits E.g. 7, 8

Parity

Stop Bits

Match the settings with your attached serial devices to the respective port (see wiring diagram on the previous page).

CAN Port Parameter

CAN Port C Baudrate (On-board) E.g. 50000, 100000, 125000, 250000, 500000, 1000000

CAN Port E Baudrate (FCCAN)

Match the settings with your attached CAN devices to the respective port (see wiring diagram on the previous page).

Update

Click on 'Update' to save your settings.

CONFIGURATION - WIRING UP

3.6

SERIAL, CAN & I/O SETTINGS

► CAN bus & Serial

The nodeG5 features up to 2 CAN 2.0B ports with i.MX8M Plus CAN controller. CAN bus signals are routed to the industrial I/O connector.

* NOTE: One CAN bus port is always available. Additional CAN and serial ports occupy additional industrial I/O expansion slots & are only available when the nodeG5 is ordered with these optional ports.

For RS485 2-wire, half-duplex cables are required.

The industrial I/O signals are routed to terminal block P8. Pin-out is determined by the I/O modules configuration below:

Default CAN Port E	<ul style="list-style-type: none"> · PIN 4 (CAN_H) · PIN 2 (CAN_L) · PIN 5 (ISO_GND_1)
* CAN Port C	<ul style="list-style-type: none"> · PIN 12 (CAN_H) · PIN 14 (CAN_L) · PIN 21 (ISO_GND_3)
* Serial (RTU) Port B	<ul style="list-style-type: none"> · PIN 7 (RS485_POS) · PIN 6 (RS485_NEG) · PIN 8 (ISO_GND_2)
* Serial (RTU) Port A	<ul style="list-style-type: none"> · PIN 1 (RS485_POS) · PIN 3 (RS485_NEG) · PIN 5 (ISO_GND_1)

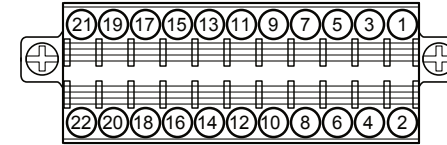
Connector Type:

22-pin dual-row plug with spring connections

Locking: screw flange

Pitch: 2.54mm

Wire cross-section: AWG20-AWG30



Pin	Signal Name	Isolation Power Domain
1	RS232_TXD / RS485_POS	1
2	CAN_L	1
3	RS232_RXD / RS485_NEG	1
4	CAN_H	1
5	ISO_GND_1	1
6	RS232_RXD / RS485_NEG	2
7	RS232_TXD / RS485_POS	2
8	ISO_GND_2	2
9	IN0	3
10	IN1	3
11	IN2	3
12	RS232_TXD / RS485_POS / CAN H	3
13	IN3	3
14	RS232_RXD / RS485_NEG / CAN_L	3
15	OUT0	3
16	OUT1	3
17	OUT3	3
18	OUT2	3
19	24V_IN	3
20	24V_IN	3
21	ISO_GND_3	3
22	ISO_GND_3	3

CONFIGURATION - WIRING UP

3.6 SERIAL, CAN & I/O SETTINGS

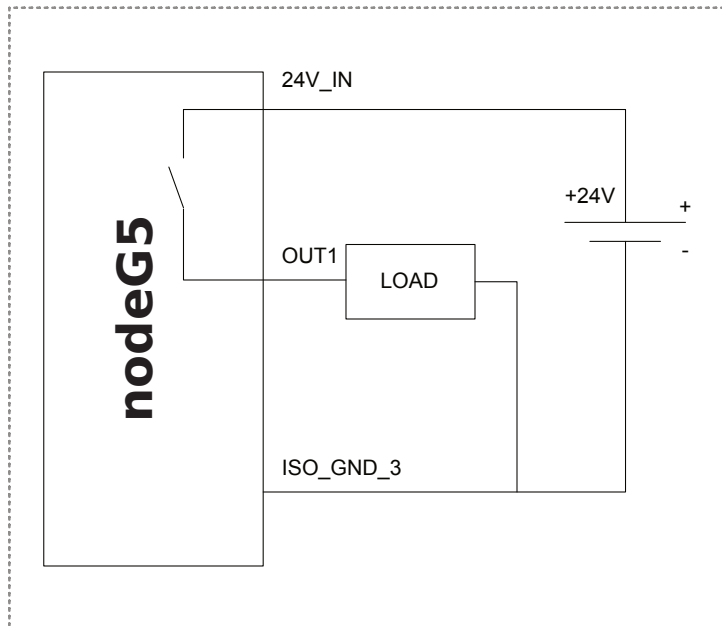
Digital Inputs & Outputs

- Key characteristics:
- Designed for 24V PLC applications
 - Galvanic isolation from main unit and other I/O modules
 - Digital outputs maximal output current - 0.5A per channel

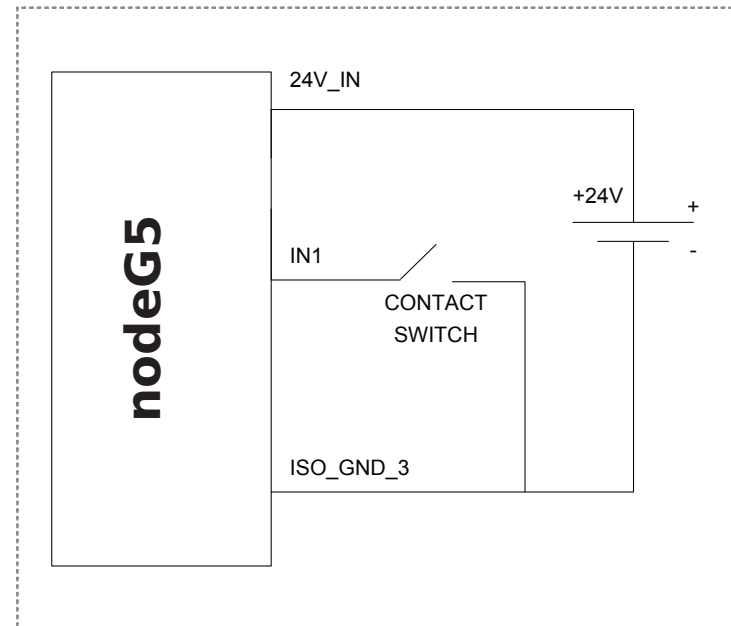
Digital I/O Operating Conditions

Parameter	Description	Min	Typ.	Max	Unit
24V_IN	External power supply voltage	12	24	30	V
VIN Low	Maximal input voltage recognised as LOW			4	V
VIN High	Minimal input voltage recognised as HIGH	6			V

Digital output wiring example



Digital input wiring example



nodeG5

3.7 IOT HARDWARE

MENU OPTIONS

- Quick Start
- Cellular WAN
- Dynamic DNS
- Ethernet
- Wireless
- Serial / CAN

IoT Hardware

- IoT Client
- Management
- System Status
- Logout

IOT Hardware Setup

Modbus mode [\[modbus.pdf\]](#)

CAN bus mode [\[OBD2.pdf\]](#)

OBD/C2Q: Query mode || C2R: Read Mode

COMeth mode [\[COMeth.pdf\]](#)

ZBR: Query mode || ZBQ: Read Mode

Event Drop Type

Poll Period

 secs

Poll Time Out

 secs

Query Pause

 secs (pause between query required for Modbus)

Time Stamp Offset

 eg +8 or -6.5 (offset from UTC+0)

Bluetooth Radio

Click to enable Modbus mode

Choose 'Query mode' to send request packet & read response values. Choose 'Read mode' when slaves auto report their status/values. J1939 users will also need to choose that CAN bus option here.

ComETH BOT supports query and reading of on-board digital input.

Select the time interval of reading data events of the iotasset listing. If you wish, have a different polling period for different assets, refer to our web FAQ to set your iotasset.txt configuration.

The timeout specifies the time period to accept responses after each network request. Ensure adequate spacing that takes into account network traffic and latency.

If you require a pause between separate poll queries, set it here.

Set your local timezone for event timestamp.

Enable the Bluetooth option here. Note that this feature is model dependant.

Update and reboot the nodeG5

nodeG5

3.7 IOT HARDWARE

MENU OPTIONS IOT Hardware Setup

Quick Start
Cellular WAN
Dynamic DNS
Ethernet
Wireless
Serial / CAN

IoT Hardware IoT Client

Management
System Status
Logout

DATA SNAPSHOT :: [Show Data](#) DELETE DATA Warning : Will delete all user sensor data

Check File :: [Check iotasset.txt](#) UPLOAD IOTASSET.JSON FILE

Show a snapshot of the current data

DELETE ALL JSON DATA

Ensure that the gateway HTTPS console must be accessible before proceeding with these steps.

1. Click on the 'UPDATE IOTASSET.JSON FILE' button.
2. In the new window, click on 'CHOOSE FILE' & select the updated file from your local folder.
3. Click 'UPLOAD FILE'
4. Close the page & log in again for security purposes.

If the update failed, check that the connection to the gateway is stable. Or else please contact support@amplified.com.au

Click to see the current configurations file in a new web page.

IMPORTANT ::

Please upload the following settings via the **Management tab**.

- **iotasset.json** with hardware device settings (e.g Modbus addresses)
- **connstr.txt** with Azure settings (e.g. Azure IoT device id token)

nodeG5

3.8
IOT CLIENT

MENU OPTIONS

- Quick Start
- Cellular WAN
- Dynamic DNS
- Ethernet
- Wireless
- Serial / CAN

IoT Hardware
IoT Client

- Management
- System Status
- Logout

IOT Client Setup

Client Setup :: Azure IoT

nodeG5 Azure IoT Quick Start Guide [web pdf](#)

Device ID

Client Type

Provisioning Host

ID Scope

SAS Private Key

Enable Client

Enter the Device ID you use to set up your Microsoft Azure IoT Account.

Select if you are connecting to Azure IoT Hub or IoT Central.

Enter the endpoint/host for sending the data. By default this is set to 'global.azure-devices-provisioning.net'

Enter in the ID scope assigned to your Azure device provisioning service.

Enter the SAS private key that is generated using your device connection string.

Select to Enable the Azure IoT Client

Client Setup :: AWS IoT

nodeG5 AWS IoT Quick Start Guide [web pdf](#)

Thing Name

Topic

AWS Endpoint

AWS Port

Enable Client

Enter the Thing Name, Topic, Endpoint & AWS Port as per the settings in your AWS account

Select to Enable the AWS IoT Client

nodeG5

3.8 IOT CLIENT

MENU OPTIONS

- Quick Start
- Cellular WAN
- Dynamic DNS
- Ethernet
- Wireless
- Serial / CAN

IoT Hardware
IoT Client

- Management
- System Status
- Logout

IOT Client Setup

Client Setup :: Ubidots

nodeG5 ubidots IoT Quick Start Guide [web pdf](#)

Device Token

Device Name

Enable Client ▼

Enter the Device Token & Name as per the settings in your Ubidots account

Select to Enable the Ubidots IoT Client

Client Setup :: MQTT

nodeG5 MQTT IoT Quick Start Guide [web pdf](#)

Broker Host

Message Topic

Host Port

Username for port 1883

Password for port 1883

Enable Client ▼

Enter the MQTT Broker IP that you want to connect to

And your Topic as per the settings in your Broker/ to describe your data set

And the Broker Port details as per the settings in your MQTT Broker

Enable the nodeG5 as a MQTT IoT Gateway

CONFIGURATION

3. 10 MANAGEMENT

Note that from the internet, the nodeG5 can only be accessed via HTTPS (secure) to ensure all data between user and nodeG5 web configuration page is encrypted.

We give our clients the choice to install their own signed certificate (e.g. Veri-sign or Digicert) via SSH to nodeG5 console. Since there is no packaged signed SSL certificate in each nodeG5, a complaint of error might be issued from the browser. Note that this does not affect the secure encryption of data to configure the nodeG5 via HTTPS.

nodeG5

MENU OPTIONS System Management

Quick Start
Cellular WAN
Dynamic DNS
Ethernet
Wireless
Serial / CAN

IoT Hardware
IoT Client

Management
System Status
Logout

Web Login Username

admin

Enable https access from WAN

Enabled

Enable Secure Shell (SSH)

Enabled

Enable System Log

Disabled

System Time reference

Disabled

System Time reference

ntp

UPDATE

Set Up RTC (hardware clock)

Set RTC using current system time

Password Management

Current Password

New Password

Reconfirm New Password

Change Password

This login name is only used for web. If you are using SSH, always log in as 'root'.

Click to enable remote https access via WAN port 443. Note that non secure https access via WAN is not allowed.

Disabled by default. If enabled it will provide root access using the default login details on page

If enabled you can download/view the log page from the 'System status page.

Choose a system time source reference as ntp (online time service) or rtc (on-board battery back hardware clock).

Click to update hardware clock using the current system

For security, please do not use default password for your deployed unit.

Passwords are never stored directly but as a hash string to increase device security.

nodeG5

MENU OPTIONS System Management

- Quick Start
- Cellular WAN
- Dynamic DNS
- Ethernet
- Wireless
- Serial / CAN

- IoT Hardware
- IoT Client

- Management**
- System Status
- Logout

Configuration Parameters Management

Please insert usb drive labelled 'nodeG5'.
Configuration file (config.db) backup & restore

Download config.db from nodeG5

Upload config.db to nodeG5

User Configuration and Scripts Management

Please insert usb drive labelled 'nodeG5'.
Files (e.g. iotasset.json, firewall.user, user.lua, user.py or connstr.txt) must be in the /user folder.

Download /user to nodeG5

Execute user.lua Script [\[nodeG5 Lua.pdf\]](#)

Delete User files

Execute user.py Script [\[nodeG5 Python.pdf\]](#)

To allow 'cloning' of parameter settings to multiple nodeG5 in deployment we utilise USB flash drives.

1. Format a USB thumb-drive (e.g. NODE32) and label it 'nodeG5'
2. After the nodeG5 is powered up insert the thumb-drive into an available USB port.
3. Click 'Download config.db from nodeG5', wait 5 seconds & remove thumb-drive
4. Insert the thumb-drive into new nodeG5 and click 'Upload config.db to nodeG5', wait 5 seconds and remove thumb-drive
5. Check in new nodeG5 that parameters from other nodeG5 has been copied over

To input your own LUA or Python program:

1. Write your LUA or Python program and name it as 'user.lua' or 'user.py'
2. Save the program in /user folder in your thumb-drive (drive labelled 'nodeG5')
3. Insert the thumb-drive into your nodeG5
4. Click 'Download /user to nodeG5', wait 5 seconds and remove the thumb-drive
5. You can click 'Execute Program' to test your program

Your program will automatically be executed after complete boot-up of the nodeG5.

nodeG5

MENU OPTIONS System Management

Quick Start
Cellular WAN
Dynamic DNS
Ethernet
Wireless
Serial / CAN

IoT Hardware
IoT Client

Management
System Status
Logout

Firmware Management

Update Firmware Patch [Patch Guide.pdf]

System Recovery Management

Factory Settings

Reboot System

Ensure that the gateway HTTPS console must be accessible before proceeding with this steps.

1. Click on the 'UPDATE FIRMWARE' button.
2. In the new window, click on 'CHOOSE FILE' and select from your local folder the specific firmware update .zip file. (Please check with support@amplified.com.au for any assistance).
3. Click 'UPLOAD FIRMWARE PATCH'. If the firmware has been successful you will get the following message:

"RESULT: The firmware update has been applied"

4. After closing the page, you will need to log in again for security purposes.

If the update failed, check that the connection to the gateway is stable. Or else please contact support@amplified.com.au

Click 'Reboot' to soft reset the nodeG5 device.

Click 'Factory Settings' to revert all parameters to factory default.

nodeG5

3. 11
SYSTEM STATUS

MENU OPTIONS	System Status	
Quick Start	Main	
Cellular WAN		
Dynamic DNS	Firmware Version	5.15.32+gb917e043c529
Ethernet	System Date & Time	Thur Aug 10 02:41:16 UTC 2023
Wireless	Upload and CPU Load (1,5,15m)	02:41:16 up 16 min, 1 user, load average: 0.25, 0.22, 0.13
Serial / CAN	Temperature	39 * C

IoT Hardware
IoT Client

Management
System Status
Logout

Cellular WAN		
Modem firmware		EC25EUGAR06A07M4G
IMEI		864303052713149
USIM IMSI		502181121133668
USIM ICCID		8960181171211336711
Modem State		connected
Interface		wwan0
SIM APN		telstra.internet
IP address		21.173.254.22
Operator Name		U Mobile
Roam Status:		home
Service Mode:		lte
Signal Strength:		63%
Cellular Data (since bootup)		RX packets 30 bytes 3286 (3.2 KIB) TX packets 42 bytes 3994 (3.9 KIB)

System Log : [System Log File](#)

Diagnostics : [Diagnostics Output File](#)

Run a system diagnostic test

CONTACT US

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