FATBOX G3 EDGE IOT GATEWAY ROUTER LTE/4G DATA SHEET

fatbox G3
amplified
engineering

Collect and send Modbus RTU/TCP and CAN Bus device data to a designated cloud service.

◤ Network Persistence

Hardware and software design combine to ensure the reliability of the connection to remote industrial assets. Integrated in a robust aluminium chassis. Lab tested and certified for CE and FCC part 15.

CELLULAR INTERFACE

· HSPA+ 14.4Mbps downlink and 5.76Mbps uplink over 850/900/1900/2100MHz bands
· GSM 850/900/1800/1900 for GPRS and EDGE
· LTE (EU/Asia) version available as option.
 LTE Band supported : B1 (2100), B2 (1900), B3 (1800), B4 (AWS), B7 (2600), B8 (900), B20 (800DD), B5 (850)
· RX Diversity antenna for optimum performance

OPERATING SYSTEM

· Linux on ARM Cortex-A9 (IMX6 Solo/Dual/Quad options)

SERIAL INTERFACE

· RS-232/RS-485 ±15kV ESD Protected
· Integrated TCP Serial server and client mode

LAN INTERFACE

· 2 X 10/100BaseT Ethernet port
· 24VDC POE (Passive Input)

◤ Network Control

Add open customer software or 3rd party API (e.g. REST API for HTTP, HTTPS) to write local automations or use the integrated web menu to configure network sending and controls.

CAN BUS INTERFACE (OPTIONAL)

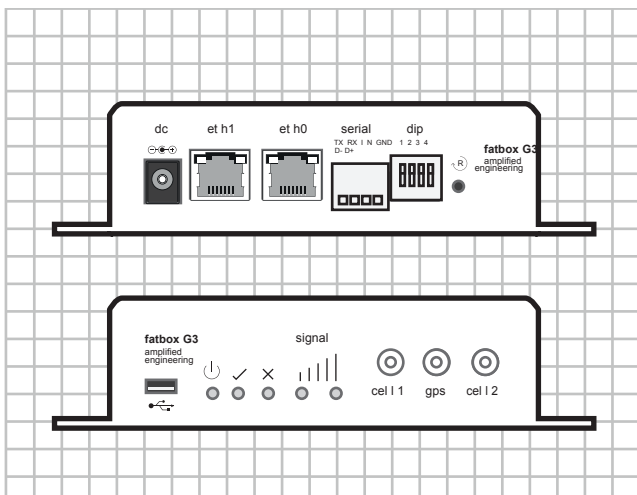| SUPPORTING | · ISO15765 |
| | · J1939 |

MANAGEMENT

NETWORK ROBUSTNESS	· Designed for maximum uptime from available network
	· 2 x SIM support for network failover
NETWORKING	· Dynamic DNS and Port Forwarding
MANAGEMENT	· Azure IoT Hub Client for I(IoT) gateway
	· AWS IoT via MQTT for I(IoT) gateway
	· Ubidots IoT Hub Client for I(IoT) gateway
	· Data pre-processing to remove duplicate/ drop repeated values data for sending
	· SSH for Remote LINUX Management
	· AT over Ethernet LAN
	· AT over serial
	· SMS to reboot
	· OTA firmware & configurations update
	· SNMPv2
	· On-board RTC
	· Ethernet WAN to 3G Failover

OPERATING CONDITIONS

| POWER | · 12~24VDC (0.4/0.2A/0.1A @12VDC Peak/Nominal/Idle) |
| TEMP | · -40°C ~ +75°C Operating Temperature |

USER CUSTOM PROGRAMMING

· Run Python (2.7.15 & 3.6.5)/ LUA/ BASH scripting
· Available 2GB of on-board flash data storage

DATA SHEET

VERSION SPECIFICATIONS

	OEM	STANDARD
INTERFACE		
- LAN	●	●
- SERIAL	●	●
- I/O	●	●
- USB	●	●
DIMENSION		
- L	114mm	149mm
- W	108mm	111mm
- H	19mm	37mm
INTEGRATED MOUNTING		●
WEIGHT	125g	390g

PERIPHERALS (INCLUDED)

· GSM antenna (with 2M wire)
· CAT-5 LAN cable (3M)
· Power supply unit (230/110VAC to 24VDC 0.5A)

PERIPHERALS (OPTIONAL)

· High-gain outdoor antenna option
· Weather resistant enclosure
· DIN rail mounting
· WIFI/ Bluetooth 4.0 dongle (2.4G, Operating 0°C ~ +50°C)

WARRANTY

5 years manufacturer warranty

SUPPORT

Our Service Support means that we make the security and integration of the network our responsibility.
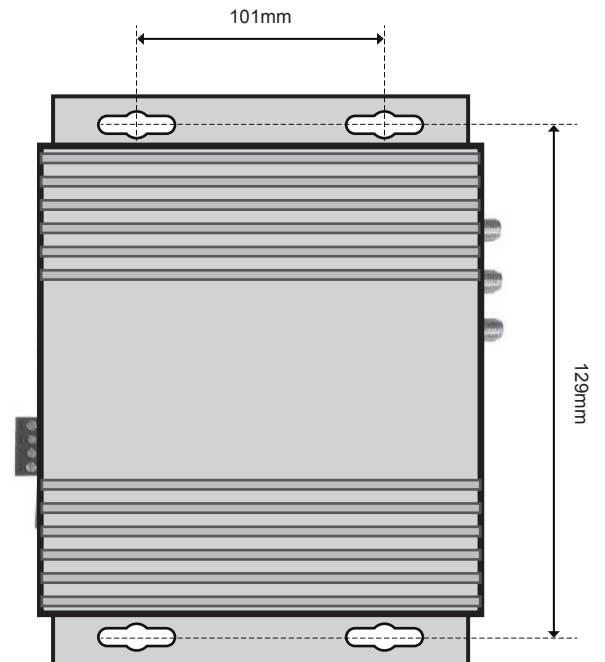
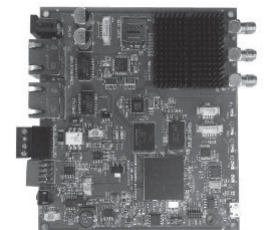| SALES	sales@amplified.com.au
TECHNICAL SUPPORT	support@amplified.com.au

The FATBOX G3 is available in the following options.

STANDARD
(with rugged anodised aluminium chassis)

WEATHER RESISTANT CASING   **OEM Board**

amplified engineering