


Performances

 Up to 15kms LOS,
1-5kms in urban area

Power Supply

 9-36Vdc

Connectivity

 Internal or external
Network server
(Activity, Lorient, TTN)



The 1Gate LoRa™ Gateway is an indoor gateway for operated LoRaWAN™ networks. Simple to use, this gateway offers the largest selection of configurations and management modes and this, whatever your IoT application. It can be interfaced with all types of network servers.

The LoRa™ gateway operates in multi-channel mode and accepts multiple connections.

It's marketed in the form of a ventilated compact metallic enclosure with DIN Rail mounting, designed for strong RF performances.

The 1GATE gateway is ready to use while be customizable with its open-source software. Initially configured as Packet-Forwarder and has been tested with the most common networks servers (TTN, Lorient, Activity).

An optional GPS version is also available.

An industrial version for base station (IP66) will also be available soon.



Technical features

Dimensions	120 x 105 x 41 mm
Antenna	External (SMA connector)
Temperature	-30°C à +80°C (operating) -40°C à +85°C (storage)
Fixation	Rail DIN
Casing	Compact aluminium (Indoor)
Power	9-36Vdc – 6W typique (max 12W)
Weight	380 g
Frequency	863 – 870 MHz
Output Power	500 mW (27 dBm)
Datarate	LoRaWan : 300 bit/s - 10 Kbit/s
RF core	SX1301 + SX1257 Semtech
GPS / GNSS	Optional
WiFi	802.11bgn
Bluetooth	Low Energy (BLE)
Ethernet	10/100Mbps



Radio board

- **Physical Layer: LoRa**
- **MAC Layer: LoRaWAN**
- **Base Band Processor: Semtech SX1301**
- **Transceiver: Semtech SX1257**
- **Frequency Range: 863 to 870MHz**
- **Power Transmission: max 14dBm**
- **Sensivity Rx: -137dBm**

Ref: AGT/RF MOQ: 100pcs

Product references:

AGT/NS	Compact Gateway with Network Server
AGT/NSGPS	Compact Gateway with Network Server & GPS
AGTKIT/NS	KIT compact Gateway with Network Server
AGTKIT/NSGPS	KIT compact Gateway with Network Server & GPS

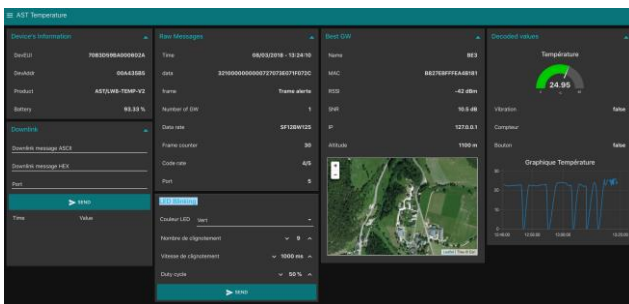
AGT-I/NS	Industrial Gateway with Network Server
AGT-I/NSGPS	Industrial Gateway with Network Server & GPS

Radio card only:

AGT/RF	RF card (subject to restrictions, contact us)
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4G router:

AGT-I/OPT4G	4G industrial router
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NodeRed embedded



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