

FlexGate™ FG264 is a family of LoRaWAN private operator Gateway designed for Industrial Internet of Thing applications. Offering a wide range of options, it is the ideal Gateway to match different use cases on the field including Edge and IA.

Flexible Gateway

The FlexGate™ FG264 product line is a family of LoRa Gateway designed to bring hardware and software flexibility to meet the IoT technical challenges.

Beyond LoRa support, FlexGate™ FG264 product line offers a flexible Cloud and field connectivity within a unique platform ready to adapt to local configuration and facilitate deployment, maintenance, and installation.

Flexible processing power

The FlexGate™ FG264 product line integrates a high performance and low power processor. This flexible architecture offers a processing power that can easily be adapted to different use cases including Edge Computing and Fog Computing applications.

LoRa Concentrator “full power” inside

The FlexGate™ FG264 product line includes a real LoRa concentrator structured around the dedicated Semtech SX1301 chip having the capability to simultaneously listen to 8 LoRa channels in order to communicate with several thousand connected objects.

Multi-connectivity towards the Cloud

The FlexGate™ FG264 product line offers a rich connectivity with 1 Gbit Ethernet and 3G/4G. All links are simultaneously available on the Gateway and fail back can be set according to different scripts. With FlexServer Embedded LoRaWAN Network Server, MQTT connectivity to major Cloud such as Microsoft Azure, Amazon AWS or SAP Hana is fully transparent.

Management services dedicated to IoT

The FlexGate™ FG264 product line comes with an open Framework to make software services available for the IoT world. This open architecture allows easy integration on the FlexGate of any new services developed in Python.

An optimized platform

Powered by PoE+, the FlexGate™ FG264 product line is designed to be a perfect indoor or outdoor platform able to handle all use cases with a great choice of connectivity.



Outdoor version

FlexGate FG264

Private Operator LoRa Gateway

Key features

- Compact size indoor and outdoor version
- Intel Atom or Arm i.MX6 powered
- Ethernet POE+
- Option 3G/4G
- LoRa 868 MHz or 915 MHz
- Wall mounting option

Applications

- IIoT Private Operators
- Smart Cities
- Wireless Networks
- Energy
- Smart Building
- Industrial 4.0
- ...

PN

FG3815i_L8_26432

Indoor version LoRa 868 MHz
Atom Bay Trail 3815 - 2GB RAM – 4GB SSD

FG3815i_L8_26465

Outdoor version LoRa 868 MHz
Atom Bay Trail 3815 - 2GB RAM – 4GB SSD

FGMX6SCi_L8_26432

Indoor version LoRa 868 MHz
NXP iMX6 Single Core - 2GB RAM – 4GB SSD

FGMX6SCi_L8_26465

Outdoor version LoRa 868 MHz
NXP iMX6 Single Core - 2GB RAM – 4GB SSD

FGMX6SCi_L9_26465

Outdoor version LoRa 915 MHz
NXP iMX6 Single Core - 2GB RAM – 4GB SSD

Consult us for other options.

Flex4IoT compatibility

- Flex4Factory
- Flex4Bridge
- Flex4Agri
- Flex4Shop
- ...

Specifications

<i>Processor</i>	Intel Atom or NXP i.MX6 RAM: 2 GB SSD: 4 GB – Option 64 GB
<i>LoRa connectivity</i>	Semtech SX1301/SX1257 8 Channels 868 MHz – 915 MHz
<i>LAN/WAN</i>	Gigabit Ethernet Option: 3G/4G or WiFi
<i>Package</i>	264 mm x 155 mm x 40 mm 850 gr (without Antenna)
<i>Indoor connectivity</i>	1xRJ45: Ethernet 1Gb [PoE+] 1xSMA: 3G/4G – WiFi 1xSMA: LoRa antenna
<i>Outdoor connectivity</i>	1xM12 [IP67]: Ethernet 1Gb [PoE+] 1xSMA [IP67]: 3G/4G – WiFi 1xBNC type N [IP67]: LoRa antenna
<i>LoRaWAN connectivity</i>	Packet forwarder for Lorient, Actility... Option: FlexServer Embedded LNS MQTT connectivity to Cloud Services: Azure, SAP HANA, AWS...
<i>Firmware</i>	Linux Yocto Support for Python local application



Indoor version



Outdoor version

Expemb is a member of Intel® Internet of Things Solutions Alliance

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