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™ FGW264 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 fall 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.
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 - 2 GB RAM – 4 GB SSD
FG3815I_L8_26465
Outdoor version LoRa 868 MHz
Atom Bay Trail 3815 - 2 GB RAM – 4 GB SSD
FGMX6SGI_L8_26432
Indoor version LoRa 868 MHz
NXP iMX6 Single Core - 2 GB RAM – 4 GB SSD
FGMX6SGI_L8_26465
Outdoor version LoRa 868 MHz
NXP iMX6 Single Core - 2 GB RAM – 4 GB SSD
FGMX6SGI_L9_26465
Outdoor version LoRa 915 MHz
NXP iMX6 Single Core - 2 GB RAM – 4 GB SSD

Consult us for other options.

Flex4IoT compatibility
- Flex4Factory
- Flex4Bridge
- Flex4Agri
- Flex4Shop

Specifications

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<tr>
<th>Feature</th>
<th>Indoor version</th>
<th>Outdoor version</th>
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<tbody>
<tr>
<td>Processor</td>
<td>Intel Atom or NXP i.MX6</td>
<td>NXP i.MX6 Single Core</td>
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<tr>
<td>RAM</td>
<td>2 GB</td>
<td>2 GB</td>
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<tr>
<td>SSD</td>
<td>4 GB – Option 64 GB</td>
<td>4 GB</td>
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<tr>
<td>LoRa connectivity</td>
<td>Semtech SX1301/SX1257 8 Channels</td>
<td>NXP iMX6 Single Core</td>
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<tr>
<td>868 MHz – 915 MHz</td>
<td></td>
<td>2 GB</td>
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<tr>
<td>Ethernet /WAN</td>
<td>Gigabit Ethernet</td>
<td></td>
</tr>
<tr>
<td>3G/4G or WiFi</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Package</td>
<td>264 mm x 155 mm x 40 mm</td>
<td>264 mm x 155 mm x 40 mm</td>
</tr>
<tr>
<td>Indoor connectivity</td>
<td>1xRJ45: Ethernet 1G (PoE+)</td>
<td>1xBNC type N [IP67]: LoRa antenna</td>
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<tr>
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<td>1xSMA: 3G/4G – WiFi</td>
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<td>1xM12 [IP67]: Ethernet 1G [PoE+]</td>
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<td>1xSMA [IP67]: 3G/4G – WiFi</td>
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<td>1xSMA: LoRa antenna</td>
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<td>Option: FlexServer Embedded LNS</td>
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<td>Azure, SAP HANA, AWS…</td>
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<tr>
<td>Firmware</td>
<td>Linux Yocto</td>
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<td></td>
<td>Support for Python local application</td>
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</tbody>
</table>

Indoor version

Outdoor version