Mesh Gate 6424-XL & Mesh Node-XL

Mesh Gate 6424-XL: Stand-alone gateway which manages the wireless network and collects data periodically sent by the EMN, Wi-Zone and/or Wi-Pulse devices. The Mesh Gate 6424-XL family is split into three options according to the number of end nodes allowed in the network.

<table>
<thead>
<tr>
<th>Description</th>
<th>Maximum number of Nodes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mesh Gate 6424 10-XL (ID 170)</td>
<td>10</td>
</tr>
<tr>
<td>Mesh Gate 6424 100-XL (ID 200)</td>
<td>100</td>
</tr>
<tr>
<td>Mesh Gate 6424 200-XL (ID 220)</td>
<td>200</td>
</tr>
</tbody>
</table>

Mesh Node-XL: Network repeater allowing extended distance between the EMN, Wi-Zone and/or Wi-Pulse devices and the Mesh Gate. A Mesh network provides redundant data paths to the gateway.

Features

- Mesh, Star and Star-Mesh Network topologies
- Interface RS 232 Modbus RTU (Gateway only) 2)
- RF frequency range 3) 2405..2480 MHz
  - Programmable in 16 channels
  - Channel spacing 5 MHz
  - Unlicensed ISM band worldwide
- Range between Mesh Node-XL and Mesh Gate 6424-XL (indoor, line of sight) 260 m
- Range to EMN (indoor, line of sight) 25 m
- Data rate 250 kbps
- Power supply voltage AC adaptor (see page two) 6 to 30 V DC
- RF output power max 20 dBm (100mW)

General data

- Power consumption \( P_C \) 200 mA
- Ambient operating temperature \( T_A \) -10 .. +55 °C
- Storage temperature \( T_S \) -25 .. +85 °C
- Mass Mesh Gate 6424-XL 60 g
  - Mesh Node-XL 151 g

Notes:

1) For XL model, check that the country regulation allows up to 100 mW RF power.
2) For more information, see WI-LEM user guide
3) RF Certifications: CE, FCC, IC.
LEM reserves the right to carry out modifications on its transducers, in order to improve them, without prior notice.

Mesh Gate 6424-XL (in mm. 1mm = 0.0394 inch)

Mesh Node-XL (in mm. 1mm = 0.0394 inch)

Power Supply: AC Adaptor

Please order separately the Mesh Gate 6424-XL & Mesh Node-XL AC Power Supply according to the table below:

<table>
<thead>
<tr>
<th>Reference</th>
<th>Description</th>
<th>LEM code</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC Adaptor EU</td>
<td>AC Power Supply for EU</td>
<td>90.D2.98.004.0</td>
</tr>
<tr>
<td>AC Adaptor UK</td>
<td>AC Power Supply for UK</td>
<td>90.D2.98.005.0</td>
</tr>
<tr>
<td>AC Adaptor US/JP</td>
<td>AC Power Supply for US &amp; Japan</td>
<td>90.D2.98.003.0</td>
</tr>
</tbody>
</table>