In power substation environments, where electromagnetic interference is very high, the IPS series of Ethernet switches, complying with IEC61850-3 and IEEE 1613 standards, are especially designed for power substation. In smart grid applications, zero packet loss must be maintained with wide temperature tolerances to ensure reliable packet transmissions.

### Key Features

- **GOOSE Message**
  
  For mission-critical applications, GOOSE messages can be placed into the highest QoS priority so as to avoid packet loss and delay.
  
  - IPS series Ethernet switches can communicate with GOOSE multicasts.
  - Critical communications are prioritized with the highest QoS priority.
  - Achieve zero packet loss to ensure reliable transmissions.

- **IEEE 1588 PTP V2**
  
  Ethernet equipment has become a widely accepted commodity as it replaces traditional and expensive legacy technology. The multitude of nodes needed to be synchronized as precisely as possible over the network are ever increasing. IEEE1588 PTP V2 is a packet based network protocol that carries time stamps in Ethernet format. The applications requiring this technology fall within the major markets for smart grids and telecommunication networks.

### Model List

<table>
<thead>
<tr>
<th>Model</th>
<th>Managed</th>
<th>Total Port</th>
<th>RJ45 Port</th>
<th>Fiber Port</th>
<th>Redundant Input Power</th>
<th>Certification</th>
</tr>
</thead>
<tbody>
<tr>
<td>IPS-G803SM</td>
<td>✓</td>
<td>11</td>
<td>10/100 Base-T</td>
<td>3 SFP 110/220V AC/DC or 24/48V DC/AC</td>
<td>✓</td>
<td>IEC61850-3, IEEE1613, Safety, UL60950-1, EN61000-6-2, CE, FCC</td>
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</tr>
</tbody>
</table>

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**Features**

- Redundant & wide range power inputs (isolated 24/48VDC, 110/220V DC/AC)
- u-Ring (up-to 5 rings) for redundancy cabling
- Cable diagnostic, Green Ethernet
- SmartConfig™ for quick & easy mass configuration
- SmartView™ for centralized management
- Supports negative power input with isolated RS-232 console port (for example in telecom system)