



# Omada Industrial Easy Managed Switch

## Datasheet

### IES206G

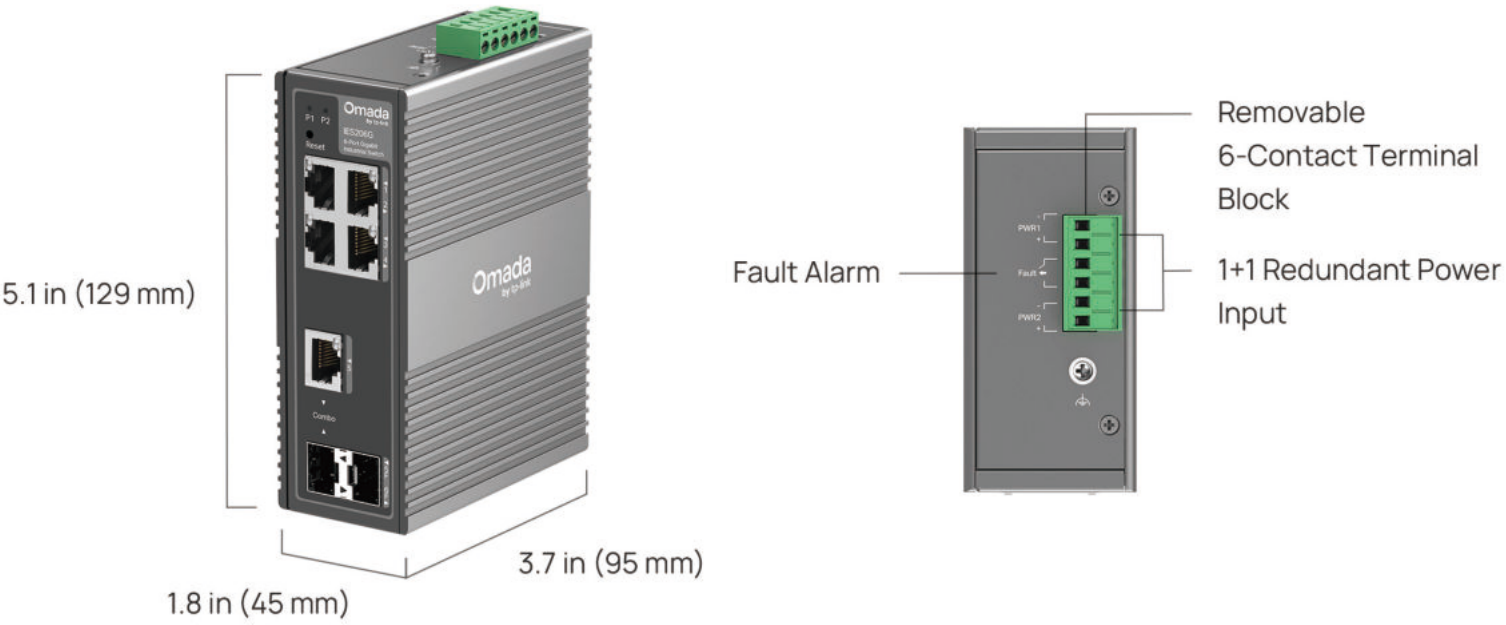
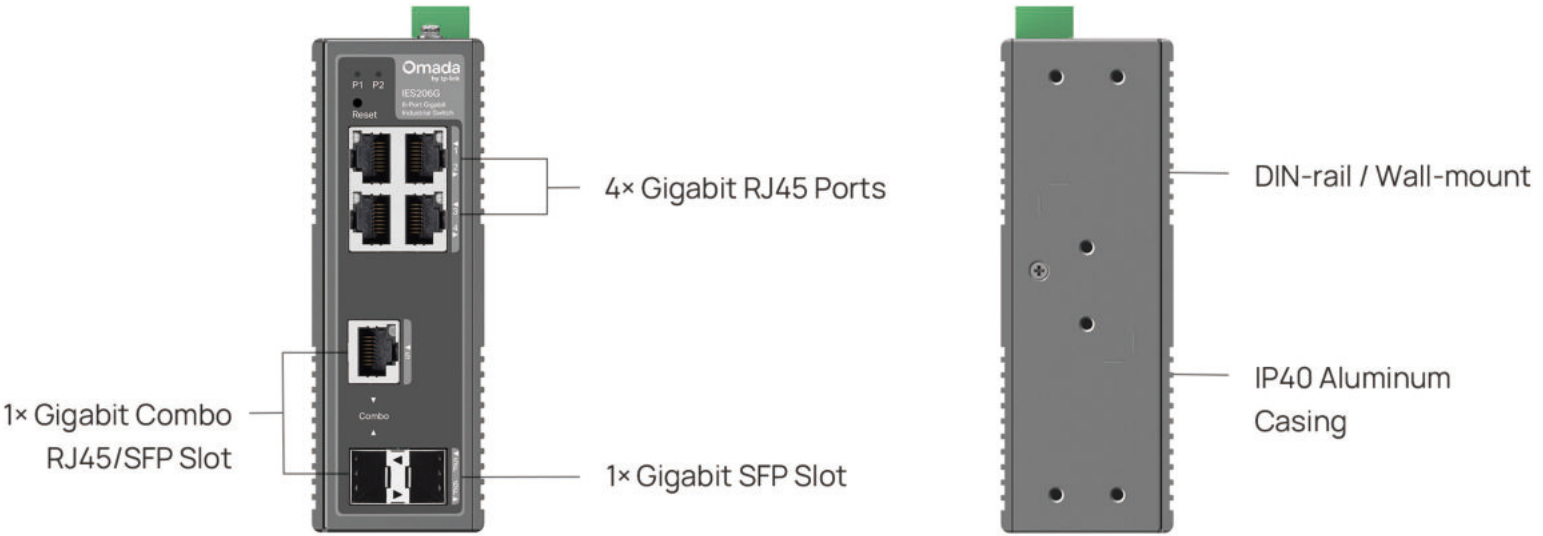
Omada 6-Port Gigabit Industrial Easy Managed Switch



## Highlights

- 6× Gigabit Ports (4× RJ45, 1× Combo RJ45/SFP, 1×SFP)
- Professional Industrial-Grade Design: -40~75°C Operating Temperature, 6kV Lighting Protection, and 1+1 Redundant Power Input
- Abundant Features: VLAN, QoS, and STP/RSTP
- Centralized Cloud Management via the Web or Omada App<sup>†</sup>
- Durable IP40 Aluminum Casing and DIN-rail / Wall-mount Design

# Product Pictures



# Specifications

| Hardware Features & Performance |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model                           |                             | IES206G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| General                         | Interface                   | 4× 10/100/1000 Mbps RJ45 Ports<br>1× Gigabit Combo RJ45/SFP Slot<br>1× Gigabit SFP Slot                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                 | Flash                       | 64 Mbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                 | Port Standard               | IEEE 802.3i:10BASE-T Ethernet<br>IEEE 802.3u:100BASE-X Fast Ethernet<br>IEEE 802.3ab:1000BASE-T Gigabit Ethernet<br>IEEE 802.3z: 1000BASE-X Gigabit Ethernet (Optical fiber)<br>IEEE 802.3x: Flow Control<br>IEEE 802.1p: Traffic Class Expediting and Dynamic Multicast Filtering<br>IEEE 802.1q: Virtual Bridged Local Area Networks<br>IEEE 802.1d: Spanning Tree Protocol<br>IEEE 802.1w: Rapid Spaning Tree Protocol<br>IEEE 802.1ab: Station and Media Access Control Connectivity Discovery (LLDP) |
| Performance                     | Switching Capacity          | 12 Gbps                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                 | Packet Forwarding Rate      | 8.93 Mpps                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                 | MAC Address Table           | 8K                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                                 | Packet Buffer               | 4 Mbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                 | Transmission Method         | Store and Forward                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                 | Jumbo Frame                 | 15 KB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Power Supply                    | Power Input                 | 9.6-60 V Dual Redundant DC Power Input                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                 | Overload Current Protection | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                 | Overload Voltage Protection | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                 | Reverse Polarity Protection | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                 | Standby Power Consumption   | 1.52 W max @ 12 VDC<br>1.79 W max @ 24 VDC<br>2.84 W max @ 48 VDC                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                 | Max Power Consumption       | 3.62 W max @ 12 VDC<br>3.57 W max @ 24 VDC<br>5.09 W max @ 48 VDC                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Fault Relay                     |                             | 24 V / 1 A Max. (Normally closed contact)                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## Hardware Features & Performance

|                        |                           |                                                                                                                                                                                                                                                                                                  |
|------------------------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model                  |                           | IES206G                                                                                                                                                                                                                                                                                          |
| Physical & Environment | MTBF                      | 899526h @ 25°C                                                                                                                                                                                                                                                                                   |
|                        | Max Heat Dissipation      | 12.30 BTU/hr max @ 12 VDC<br>12.14 BTU/hr max @ 24 VDC<br>17.31 BTU/hr max @ 48 VDC                                                                                                                                                                                                              |
|                        | Dimensions<br>(W x D x H) | 5.1 × 3.7 × 1.8 in (129 × 95 × 45 mm)                                                                                                                                                                                                                                                            |
|                        | Fan Quantity              | Fanless                                                                                                                                                                                                                                                                                          |
|                        | Installation              | DIN-rail mounting / Wall mounting                                                                                                                                                                                                                                                                |
|                        | IP Rating                 | IP40                                                                                                                                                                                                                                                                                             |
|                        | Operating Temperature     | -40 °C to 75 °C (-40 °F to 167 °F)                                                                                                                                                                                                                                                               |
|                        | Storage Temperature       | -40 °C to 85 °C (-40 °F to 185 °F)                                                                                                                                                                                                                                                               |
|                        | Operation Humidity        | 5% to 95% RH, non-condensing                                                                                                                                                                                                                                                                     |
|                        | Storage Humidity          | 5% to 95% RH, non-condensing                                                                                                                                                                                                                                                                     |
|                        | Surge Protection          | ±6 kV in common mode for Ethernet ports<br>±4 kV in common mode for DC power input ports                                                                                                                                                                                                         |
|                        | ESD Protection            | Air: ±8 kV, Contact: ±6 kV                                                                                                                                                                                                                                                                       |
|                        | Certification             | CE, FCC, RoHS                                                                                                                                                                                                                                                                                    |
|                        | EMC                       | IEC 61000-4-2 ESD: Contact: 6 kV; Air: 8 kV<br>IEC 61000-4-3 RS: 80 MHz to 1 GHz: 20 V/m<br>IEC 61000-4-4 EFT: Power: 2 kV; Signal: 2 kV<br>IEC 61000-4-5 Surge: Power: 4 kV; Signal: 6 kV<br>IEC 61000-4-6 CS: 10 V<br>IEC 61000-4-8 PFMF: 100 A/m<br>EN 55032/35<br>EN61000-6-2<br>EN61000-6-4 |
|                        | Shock                     | IEC 60068-2-27                                                                                                                                                                                                                                                                                   |
|                        | Freefall                  | IEC 60068-2-32                                                                                                                                                                                                                                                                                   |
|                        | Vibration                 | IEC 60068-2-6                                                                                                                                                                                                                                                                                    |

| Software Features |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model             | IES206G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| SDN Support       | <ul style="list-style-type: none"> <li>• Support Hardware Controller, Software Controller, Cloud-Based Controller</li> <li>• Automatic Device Discovery</li> <li>• Batch Configuration</li> <li>• Batch Firmware Upgrading</li> <li>• Unified Configuration</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| L2 Features       | <ul style="list-style-type: none"> <li>• Link Aggregation               <ul style="list-style-type: none"> <li>- Static Link Aggregation</li> <li>- Up to 2 aggregation groups and up to 4 ports per group</li> </ul> </li> <li>• Loopback Detection</li> <li>• Flow Control               <ul style="list-style-type: none"> <li>- 802.3x Flow Control</li> </ul> </li> <li>• Mirroring               <ul style="list-style-type: none"> <li>- Port Mirroring</li> <li>- One-to-One</li> <li>- Many-to-One</li> <li>- Ingress/Egress/Both</li> </ul> </li> <li>• Port Statistics               <ul style="list-style-type: none"> <li>- Port Mirror Status</li> <li>- Traffic Statistics</li> </ul> </li> <li>• 802.1ab LLDP</li> <li>• Spanning Tree               <ul style="list-style-type: none"> <li>- STP (802.1d)</li> <li>- RSTP (802.1w)</li> </ul> </li> </ul> |
| L2 Multicast      | <ul style="list-style-type: none"> <li>• IGMP Snooping               <ul style="list-style-type: none"> <li>- IGMP v1/v2/v3 Snooping</li> <li>- Fast Leave</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| VLAN              | <ul style="list-style-type: none"> <li>• MTU VLAN</li> <li>• Port-Based VLAN</li> <li>• 802.1Q Tag VLAN               <ul style="list-style-type: none"> <li>- Max 32 VLAN Groups</li> <li>- 4K VID</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| QoS               | <ul style="list-style-type: none"> <li>• 802.1p DSCP Priority</li> <li>• 8 Priority Queues</li> <li>• Priority Schedule Mode               <ul style="list-style-type: none"> <li>- WRR (Weighted Round Robin)</li> </ul> </li> <li>• Queue Weight Config</li> <li>• Bandwidth Control               <ul style="list-style-type: none"> <li>- Port-Based Rate Limit</li> </ul> </li> <li>• Storm Control               <ul style="list-style-type: none"> <li>- Multiple Control Modes (kbps/pps)</li> <li>- Broadcast/Multicast/Unknown-Unicast Control</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                            |
| Management        | <ul style="list-style-type: none"> <li>• Web-based GUI</li> <li>• DHCP Client</li> <li>• Cable Diagnostics</li> <li>• Digital Diagnostic Monitoring (DDM)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

<sup>†</sup>These functions require the use of the Omada Controller. Zero-Touch Provisioning requires the use of Omada Central (Omada Central Standard or Omada Central Essentials).  
 Go to the [Omada Central Standard Product List](#) or [Omada Central Essentials Product List](#) to find all the supported models. © 2025 TP-Link