Omada Industrial Easy Managed Switch

Datasheet

IES210GPP

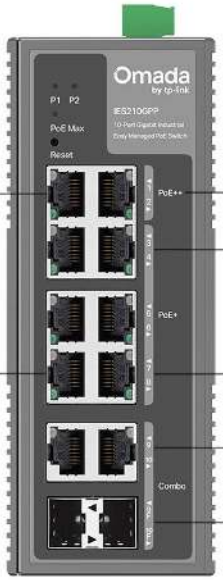
Omada 10-Port Gigabit Industrial Easy Managed Switch with 6-Port PoE+ and 2-Port PoE++



Highlights

- 8× Gigabit RJ45 Ports (2× PoE++, 6× PoE+)
- 2× Gigabit Combo RJ45/SFP Slots
- 240W Power Budget* with up to 60W for Each PoE++ Port
- Professional Industrial-Grade Design: -40~75°C Operating Temperature, 6kV Lighting Protection, and 1+1 Redundant Power Input
- Abundant Features: Up to 820ft PoE,** VLAN, QoS, and STP/RSTP
- Centralized Cloud Management via the Web or Omada App†
- Durable IP40 Aluminum Casing and DIN-rail / Wall-mount Design

Product Pictures



240W Total PoE Budget*

2× Gigabit RJ45 PoE++ Ports, up to 60W per Port

6× Gigabit RJ45 PoE+ Ports, up to 30W per Port

2× Gigabit Combo RJ45/SFP Slots



DIN-rail / Wall-mount

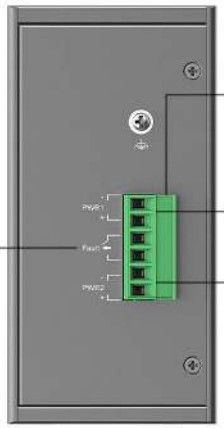
IP40 Aluminum Casing



6.1 in (155 mm)

2.4 in (60 mm)

4.7 in (120 mm)



Removable 6-Contact Terminal Block

Fault Alarm

1+1 Redundant Power Input

Specifications

Hardware Features & Performance		
Model		IES210GPP
General	Interface	2× 10/100/1000 Mbps PoE++ RJ45 Ports 6× 10/100/1000 Mbps PoE+ RJ45 Ports 2× Gigabit SFP/RJ45 Combo Ports
	Flash	64 Mbit
	Port Standard	IEEE 802.3i:10BASE-T Ethernet IEEE 802.3u:100BASE-X Fast Ethernet IEEE 802.3ab:1000BASE-T Gigabit Ethernet IEEE 802.3z: 1000BASE-X Gigabit Ethernet (Optical fiber) IEEE 802.3x: Flow Control IEEE 802.1p: Traffic Class Expediting and Dynamic Multicast Filtering IEEE 802.1q: Virtual Bridged Local Area Networks IEEE 802.1d: Spanning Tree Protocol IEEE 802.1w: Rapid Spaning Tree Protocol IEEE 802.1ab: Station and Media Access Control Connectivity Discovery (LLDP)
PoE	PoE Standard	802.3 af/at/bt
	PoE Ports	Port 1-2, up to 60 W per port Port 3-8, up to 30 W per port
	PoE Power Budget	60 W (Input: 12 V / 7.2 A - 21 V / 3.7 A) 120 W (Input: 21 V / 6.7 A - 46 V / 3.1 A) 240 W (Input: 46 V / 5.7 A - 57 V / 4.4 A)
	Fast PoE	Yes
	Perpetual PoE	Yes
Performance	Switching Capacity	20 Gbps
	Packet Forwarding Rate	14.88 Mpps
	MAC Address Table	8K
	Packet Buffer	4 Mbit
	Transmission Method	Store and Forward
	Jumbo Frame	15 KB
Power Supply	Power Input	12-57V Dual Redundant DC Power Input
	Overload Current Protection	Yes
	Overload Voltage Protection	Yes
	Reverse Polarity Protection	Yes
	Standby Power Consumption	5.64 W max @ 12 VDC 6.17 W max @ 24 VDC 5.95 W max @ 48 VDC
	Max Power Consumption	85.74 W (with 60 W PD connected @ 12 VDC) 139.75 W (with 120 W PD connected @ 24 VDC) 258.33 W (with 240 W PD connected @ 48 VDC)
Fault Relay		24 V / 1 A Max. (Normally closed contact)

Hardware Features & Performance

Model		IES210GPP
Physical & Environment	MTBF	446898h @ 25°C
	Max Heat Dissipation	291.52 BTU/hr (with 60 W PD connected @ 12 VDC) 475.15 BTU/hr (with 120 W PD connected @ 24 VDC) 878.32 BTU/hr (with 240 W PD connected @ 48 VDC)
	Dimensions (W x D x H)	6.1 × 4.7 × 2.4 in (155 × 120 × 60 mm)
	Net Weight	1.18 kg (2.60 lbs)
	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 ±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 IEC 61000-4-3 RS: 80 MHz to 1 GHz: 20 V/m IEC 61000-4-4 EFT: Power: 2 kV; Signal: 2 kV IEC 61000-4-5 Surge: Power: 4 kV; Signal: 6 kV IEC 61000-4-6 CS: 10 V IEC 61000-4-8 PFMF: 100 A/m EN 55032/35 EN61000-6-2 EN61000-6-4
	Shock	IEC 60068-2-27
	Freefall	IEC 60068-2-32
	Vibration	IEC 60068-2-6

Software Features	
Model	IES210GPP
SDN Support	• Support Hardware Controller, Software Controller, Cloud-Based Controller • Automatic Device Discovery • Batch Configuration • Batch Firmware Upgrading • Unified Configuration
L2 Features	• Link Aggregation - Static Link Aggregation - Up to 4 aggregation groups and up to 6 ports per group • Loopback Detection • Flow Control - 802.3x Flow Control • Mirroring - Port Mirroring - One-to-One - Many-to-One - Ingress/Egress/Both • Port Statistics - Port Mirror Status - Traffic Statistics • 802.1ab LLDP • Spanning Tree - STP (802.1d) - RSTP (802.1w)
L2 Multicast	• IGMP Snooping - IGMP v1/v2/v3 Snooping - Fast Leave
VLAN	• MTU VLAN • Port-Based VLAN • 802.1Q Tag VLAN - Max 32 VLAN Groups - 4K VID
QoS	• 802.1p DSCP Priority • 8 Priority Queues • Priority Schedule Mode - WRR (Weighted Round Robin) • Queue Weight Config • Bandwidth Control - Port-Based Rate Limit • Storm Control - Multiple Control Modes (kbps/pps) - Broadcast/Multicast/Unknown-Unicast Control
Management	• Web-based GUI • DHCP Client • Cable Diagnostics • Digital Diagnostic Monitoring (DDM)

†Centralized cloud management functions require the use of the Omada SDN Controller. Zero-Touch Provisioning requires the use of the Omada Cloud-Based Controller. Go to the Omada Cloud-Based Controller Product List to find all the models supported by the Omada Cloud-Based Controller.

*The PoE budget is based on lab tests and may vary due to power supply, client limitations, and environmental factors.

**The speed of the ports that support 250m PoE transmission will be downgraded to 10 Mbps. Actual transmission distance may vary depending on the quality of the cables.

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