24-Port Gigabit PoE Switch, 802.3at/af PoE

The LevelOne GEP-2421 series are unmanaged Gigabit PoE switches with 24 RJ45 PoE ports. The switches are IEEE 802.3af/at compliant, providing power and data over a single Ethernet cable to any PoE device, with a total power budget of 150/250/380/500/630W, or up to 30W per port. Ideal for desktops, they are also 19-inch rack-mountable, which provides convenient and flexible installation. The GEP-2421 switches are designed for small-to-medium businesses that require an affordable solution for deploying PoE infrastructure.

Key Features

- IEEE 802.3af/at PoE compliant to simplify deployment and installation
- IEEE 802.3x Flow Control protects against lost packets for reliable data transmission
- 10K jumbo frames to increase data transfer rates
- Supports 8K MAC address auto-learning and auto-aging
- 1000Mbps full-duplex, 10/100Mbps full/half-duplex, auto-negotiation, auto-MDI/MDIX
- 19-inch rackmount kit included

Specifications

System Specifications

Standards & Protocols:
IEEE 802.3 10-BASE-T (Ethernet)
IEEE 802.3u 100-BASE-TX (Fast Ethernet)
IEEE 802.3ab 1000BASE-T (Gigabit Ethernet)
IEEE 802.3x Flow Control (full-duplex flow control)
IEEE 802.3az (Energy Efficient Ethernet)
IEEE 802.3af Power over Ethernet
IEEE 802.3at Power over Ethernet Plus

Memory:
MX25L4005AMC-12G

Buffer Memory:
4.1Mbit

Connectors and Cabling:
24*RJ45

Button/Knob:
POWER Button

Indicator:
Power,LAN 1~24 port, PoE 1~24 port

Transmission Method:
10Base T Cat. 3, 4, 5 UTP/STP
100Base TX Cat. 5 UTP/STP
1000Base TX Cat. 5e/6/7 UTP/STP

Power Input:
AC Power input(100V~240V), 50-60 Hz

Power Output:
Per Port 56VDC, Max. 30 watts (802.3at)

Power Consumption:
150W/250W/380W/500W/630W

Backplane (Gbps):
48Gbps

MAC Address Table:
8K

Data Transfer Rate:
10/100/1000Mbps

Features

General:
24-port Gigabit Ethernet with
24-port 802.3at/af PoE Switch

PoE:
IEEE 802.3at/af Power over Ethernet/PSE Mode A

Performance

Packet Forwarding Rate:
10Mbps 14880pps,
100Mbps 148800pps,
1000Mbps 1488000pps

Jumbo Frame (K):
10K

Switching Capacity:
48Gbps

Environment

Power Saving:
IEEE 802.3az (Energy Efficient Ethernet)

Heat Dissipation:
FAN

Temperature (°C):
0° ~ 50°C

Humidity (Non-condensing):
10 ~ 90%

Installation:
Rackmount

Physical Specifications

Dimensions (W x D x H mm):
440x220x44

Weight (g):
3.8kg

Reliability

MTBF:
55.5khours (6 years)

Approval and Compliance

EMI/EMS:
EMI:
EN55032:2012+AC:2013
EN55022:2010+AC:2011
AS/NZS CISPR 22 Amdt. (2010)
EN61000-3-2:2014
EN61000-3-3:2013
EMS:
EN55024:2010
IEC61000-4-2:2008
IEC61000-4-3:2006+A1:2007+A2:2010
IEC61000-4-4:2012
IEC61000-4-5:2005
IEC61000-4-6:2013
IEC61000-4-8:2009
IEC61000-4-11:2004

Safety:
FCC Class A, CE

Environmental Test:
Operating Temperature 0° ~ 50°C
Storage Temperature -20 to 70 °C

Order Information

GEP-2421W150: 150W
GEP-2421W250: 250W
GEP-2421W380: 380W
GEP-2421W500: 500W
GEP-2421W630: 630W

Package Contents

GEP-2421W150
User Manual
Rubber Feet