LP-SG2402FP3x
24 x 10/100 Mbps 802.3af PoE Ports Switch + 2 x 10/100/1000 Mbps Dual Uplink Copper or SFP Ports

LPSG2402FP3x_SS_ENB01W

Features

■ **Network Protocol and Standards:**
IEEE 802.3 10BASE-T Ethernet, IEEE 802.3u 100BASE-T Fast Ethernet, IEEE 802.3 NWay Auto-Negotiation, IEEE 802.3af Power over Ethernet.

■ **Product/Performance:**
* Number of Ports: 10/100BASE-T on all 24 ports.
* Power Over Ethernet:
from port 1 to Port 24.
* IEEE 802.3 NWay Auto-Negotiation 802.3af 15.4W per port and **240W total power for model LP-SG2402FP30 or 280W total power for model LP-SG2402FP35**
* PoE Ports Output Voltage Range: 44-57VDC.
* Network Address Translation (NAT) MAC Filtering.

■ **Interface Ports:**
* 8P8C RJ-45 x 16 supports Shielded (STP) and Unshielded (FTP/UTP) CAT 5E, 6, 6A. 10 / 100Mbps: x 24
* Link / Act: x 24.
* PoE Power: x 24.
* Up link Ports: 2 x RJ-45 8P8C suporting shielded and unshielded cable (FTP/UTP) CAT 5E, 6, 6 A or 2 x Gigabit SFP Fiber ports.

■ **PoE Capability:**
* Functions as a Power Source Device (PSE).
* PoE Power: Up to 15.4 watts max per port for 1 – 24 ports.
* Total PoE power:
LP-SG2402FP30=300W with a recommended limit of up to 240W max
LP-SG2402FP35=350W with a recommended limit of up to 280W max.

■ **Reset Push Button:**
The switch can be reset manually by pushing the push button located in the back of the switch during more than 4-5 seconds.

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The **LP-SG2402FP3x** is a 24 x 10/100 Mbps 802.3af PoE Ports Switch without Management + 2 x 10/100/1000 Mbps Dual Uplink Copper or SFP Ports.

The **LP-SG2402FP3x** switch was designed as a Power Source Device (PSE). It provides 24 10/100 Mbps Copper Ethernet ports using the IEEE802.3af Power over Ethernet (PoE) standard and is able to be a power source for IEEE802.3af compatible PoE Powered Devices (PD) in workgroup and departments, plus two (2) uplink Gigabit ports with a Copper or SFP interface.

The **LP-SG2402FP3x** permits users to attach IEEE802.3af compliant devices such as wireless Access Points (APS), VoIP Phone, IP Camera, Printer and Network Attached Storage (NAS) directly to the 24 10/100 Ports without requiring additional power on the network. The unit is designed for installations where AC power is not available or no cost-effective at the Powered Devices location.

No configuration is required and installation is quick and easy. Support for Auto – MDI / MDI-X on all of the ports to eliminate the need for crossover connection to another switch or HUB. Auto Negotiation on each port senses the link speed of a network device (either 10 or 100) and intelligently adjusts for capability and optimal performance.

The **LP-SG2402FP3x** 24 port Power Source switch combines a high efficiency 24-port 10/100M Ethernet switch with standard 802.3af 24-port Power over Ethernet (PoE) and there are two models, the **LP-SG2402FP30** with an internal power supply of 300W with a recommended limit of up to 240W and the **LP-SG2402FP35** with an internal power supply of 350W with a recommended limit of up to 280W. All 24 PoE Ethernet ports can provide up to 15.4W of power as well as 10/100M data transmission over standard readily available CAT 5e/6/6A cables to the attached devices. While the IEEE802.3af PoE Standard specifies a maximum of 15.4 Watts of power capability, the user must take into consideration the following table for loading the switch ports in each switch model. For reference, a cable run of 100 m is considered.

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PoE Ports Switch + 2 x 10/100/1000 Mbps Dual Uplink Copper or SFP Ports

Model	Power Supply (W)	Maximum Power / Port	Maximum Power Sum (W) (80% de-rating)	Typical Power Loss in the PoE pairs for a 100m Cable length run @ 25ºC Note*A		Max power load per port(W)At the Load (100m)	Average Maximum Power Per port at the port for each of the 24 ports: Pppav=Max Power Sum /24	Pmax Load maximum power at the load located at the end of a 100 m cable run
LP-SG2402FP30	300	15.4 W	240.0	24 AWG	0.821 W	13.76	10,00	9,18
				23 AWG	0.651 W	13.93	10,00	9,18
LP-SG2402FP35	350	15.4 W	280.0	24 AWG	0.821 W	13.76	11,67	10,85
				23 AWG	0.651 W	13.93	11,67	10,85

*Note *A: At a maximum DC current is 0.321 A at 48 VDC*

A **Specifications**

Network Protocol And Standards	IEEE 802.3 10BASE-T Ethernet.
	IEEE 802.3u 100BASE-T Fast Ethernet.
	IEEE 802.3 Nway Auto-Negotiation.
	IEEE 802.3af Power over Ethernet.
Product / Performance	Number of Ports: 10/100BASE-T on all 24 ports
	Power Over Ethernet: from port 1 to Port 24
	802.3af 15.4W per port and 300W total power for model **LP-SG2402FP30** or 350W total power for model **LP-SG2402FP35**
	PoE Ports Output Voltage Range: 44-57VDC
	Network Address Translation (NAT) MAC Filtering
Interface Ports	8P8C RJ-45 x 16 supports Shielded (STP) and Unshielded (UTP) CAT 5E, 6, 6A.
	PoE power is delivered to the twist-pair pin 1,2 and pin 3,6.
	10 / 100Mbps: x 24.
	Link / Act: x 24.
	PoE Power: X 24.
Power / Electrical	Total Power consumption: **LP-SG2402FP30** 350W / **LP-SG2402FP35** 400W max.
	AC Power Input: **LP-SG2402FP30** 115 VAC/ 5.0 A, 230VAC / 3.2 A, **LP-SG2402FP35** 115 VAC /7.0 A, 230 VAC / 5 A
	PoE Power: Up to 15.4 watts max per port for 1 – 24 ports.
	Total PoE power: **LP-SG2402FP30** 300W / **LP-SG2402FP35** 350W max.
Led Indicators	Power on Indicators x 1.
	10/100: X 24. Link/Active: x 24.
	PoE Power: X 24.
Manual Reset Push Button	Resets the switch
Dimensions And Package	Enclosure: Sheet metal in black color.
	Dimensions: 430mm W x 266mm D x 66.4 mm H
	16.93" W x 10.47" D x 2.61" H

Note 1. Each Port complies with the IEEE 802.3af standard máximum power of 15.4W, the Power Sum must be lower than the internal Power Supply máximum of 300W for the **LP-SG2402FP30** model and lower than 350W for the **LP-SG2402FP35** model. LanPro recommends a Power Sum of 80% maximum, equivalent to 240W for model **LP-SG2402FP30** or equivalent to 280W for model **LP-SG2402FP35** in order to have a higher MTBF. The circuit board power consumption is taken into account in that budget.

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B   Networking Solutions

PoE and Ethernet Network Diagram
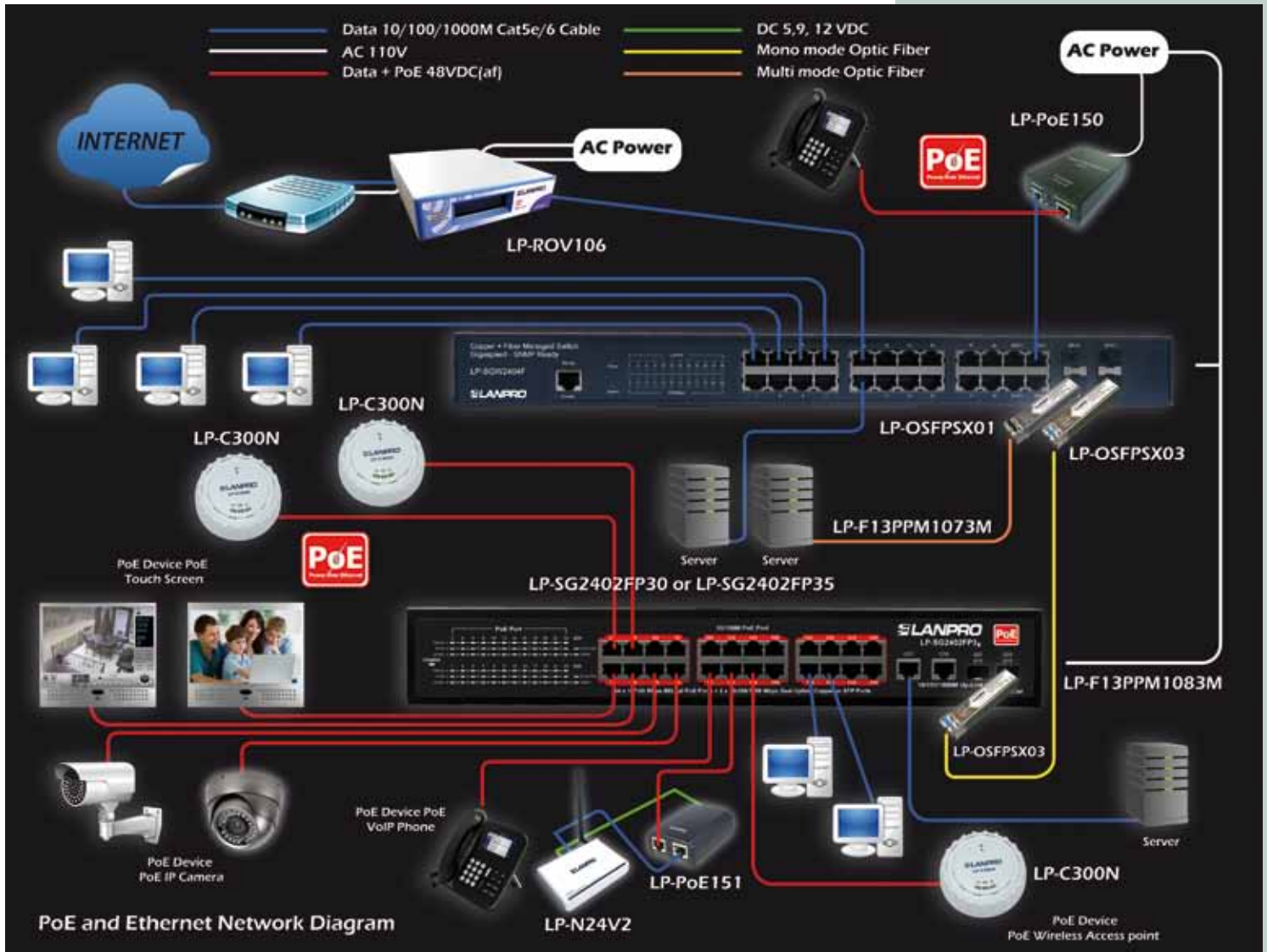
C   How to Order

LP-SG2402FP30	24 x 10/100 Mbps 802.3af PoE Ports Switch + 2 x 10/100/1000 Mbps Dual Uplink Copper or SFP Ports with up to 300 W PoE Capability
LP-SG2402FP35	24 x 10/100 Mbps 802.3af PoE Ports Switch + 2 x 10/100/1000 Mbps Dual Uplink Copper or SFP Ports with up to 350 W PoE Capability

LanPro is continuously improving its products and reserves the right to change specifications and availability without prior notice.