# level one®

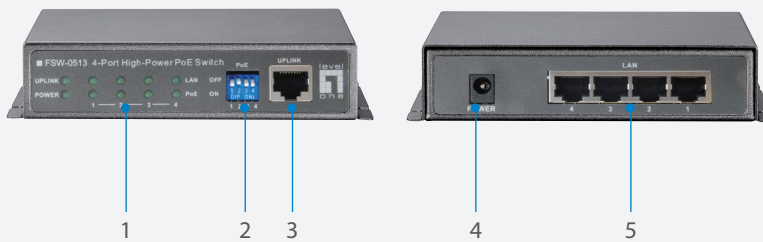# 4-Port High Power PoE + 1 FE Switch

FSW-0513 (-Z)

## H/W Version: 1

FSW-0513 (-Z) is a 10/100Mbps Fast Ethernet Switch with 4 High-Power Power over Ethernet ports and one uplink port.  With a total power budget of 120W, FSW-0513 (-Z) is excellent for deploying network devices that require high-power such as outdoor security dome cameras and access points.  And with high-power PoE, the reach of devices can be extended hundreds of meters.

With 4 dip switches, each PoE port can be manually set for On-Off control. The internal PoE power supply

can send up to 52 Watts to a single port. FSW-0513 (-Z) is compact in size, making it ideal for desktop users with limited space. You also have option of installing several FSW-0513 (-Z) in a 19" chassis (POC-6000) for a large-scale rack-mount PoE solution.

### Power Protection

FSW-0513 (-Z) supports power protections as OVP (Over Voltage Protection), OCP (Over Current Protection), robust short-circuit protection and surge protection.

1. LED Indicators
2. PoE On-Off dip Switch
3. 10/100Mbps RJ-45 Uplink Port
4. External power socket
5. 10/100Mbps RJ-45 PoE Ports

## Key Features

- Supports auto-negotiation and auto-MDI/MDI-X cable detection on each port
- Store-and-Forward architecture to ensure error-free communications
- IEEE 802.3x flow control protects against lost packets for reliable data transmission
- Simple Plug and Play installation
- Total PoE power budget: 120W, up to 52W  per port
- Control Per PoE port on-off by dip switch
- Power protection: OVP/OCP/OTP

## Works well with

**POC-6000**
8-Bay High Power PoE Chassis for FSW-0503(-Z) / FSW-0513(-Z) & GEP-0520(-Z)

**FCS-4041**
2-Megapixel P/T/Z PoE Plus Speed Dome Outdoor Network Camera

## Technical Specifications

### Standards

| | |
|---|---|
| IEEE 802.3 | 10-BASE-T (Ethernet) |
| IEEE 802.3u | 100-BASE-TX (Fast Ethernet) |
| IEEE 802.3x | Flow Control (full-duplex flow control) |

### Features

MAC Address: 1K
Buffer Memory: 48KB
Transmission Method: Store and Forward
Backplane: 1Gbps

### Filtering/Forwarding Rates

100Mbps port-148,000pps
10Mbps port-14,880pps

### Transmission Media

10Base T Cat. 3, 4, 5 UTP/STP
100Base TX Cat. 5 UTP/STP

### Network Interface

4 x 10/100Mbps RJ-45 PoE Ports
1 x 10/100Mbps RJ-45 Uplink Port

### PoE Spec

PoE Compatible: IEEE 802.3af Power over Ethernet / PSE
PoE over current protection
PoE circuit sorting protection
PoE Power Output: Per Port 52V DC, Max. 52W (High Power)
Power Budget: Max. 120W
Power Pin Assignment: 4/5(+), 7/8(-)

### LED Indicators

Power, Uplink, LAN 1~4 port, PoE 1~4 port

### Power Input

56V / 2.15A

### Power Consumption

120W

### Dimensions (L x W x H)

120 x 90 x 28mm

### Weight

0.8kg

### Temperature

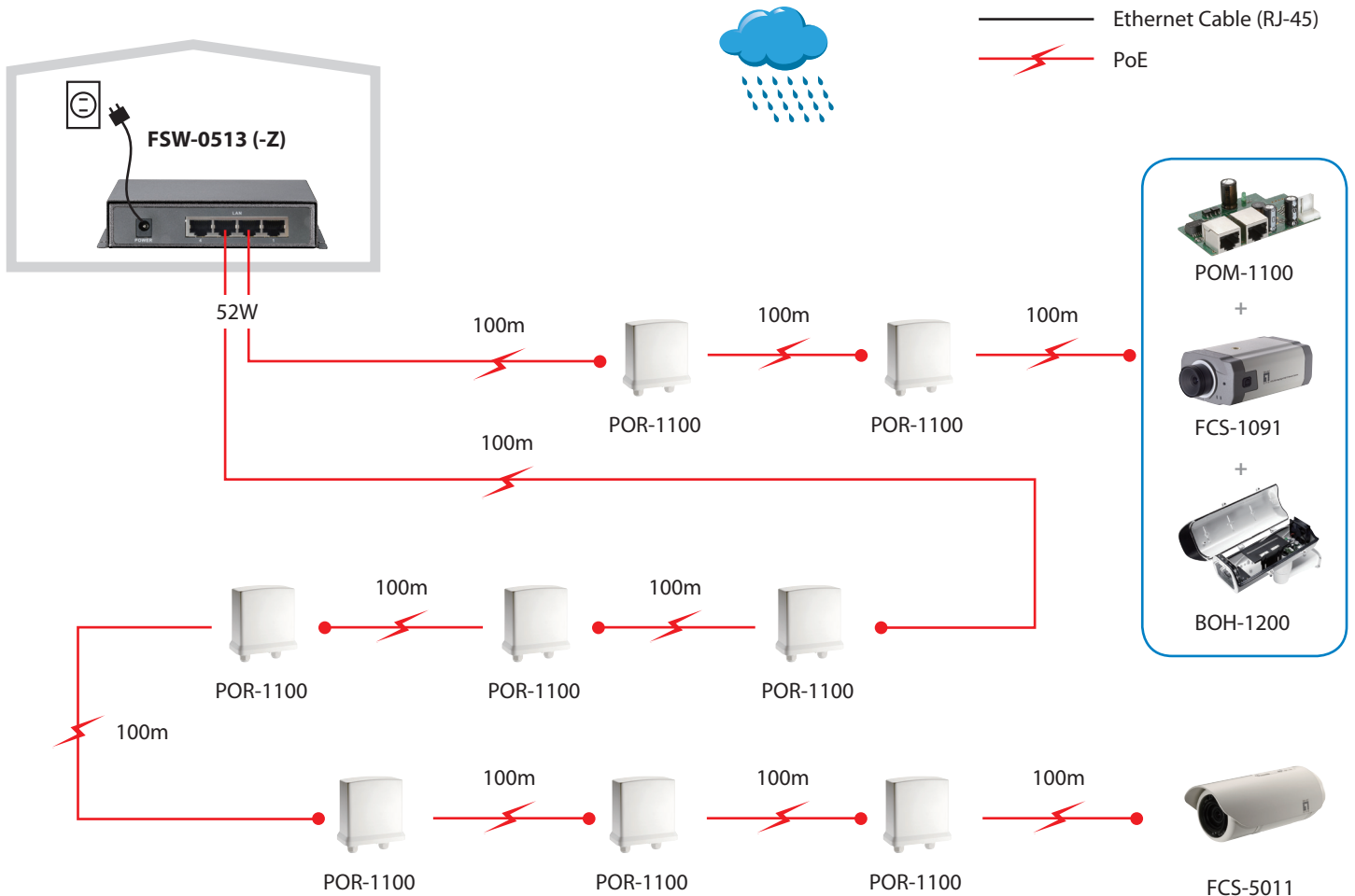Operating: 0~45 Degree °C
Storage: -40~70 Degree °C

### Humidity

Operating: 10~90% (Non-condensing)
Storage: 10~90% (Non-condensing)

### Certifications

FCC, CE

| FSW-0513 (-Z) output power table list | | | | | |
|---|---|---|---|---|---|
| Enable PoE on | Port 1 | Port 2 | Port 3 | Port 4 | Enable Port |
| PoE output Power | 52W | OFF | OFF | OFF | 1 port |
| PoE output Power | 52W | 52W | OFF | OFF | 2 Ports |
| PoE output Power | 40W | 40W | 40W | OFF | 3 Ports |
| PoE output Power | 30W | 30W | 30W | 30W | 4 Ports |

## Product Diagram



Note: These distances are typical results when used with 18~19Ω 24 AWG Cat.5 Cable

**Order Information**

**FSW-0513:** 4-Port High Power PoE + 1 FE Switch

**FSW-0503-Z:** 4-Port High Power PoE + 1 FE Switch (no power included)

**Package Contents**

**FSW-0513:** FSW-0513 x 1, Power Adapter x 1, User Manual x 1

**FSW-0513-Z:** FSW-0513 x 1, User Manual x 1

**Optional Accessories**



**POC-6000**
8-Bay High Power PoE Chassis for
FSW-0503(-Z) / FSW-0513(-Z) / GEP-0520(-Z)