Industrial Unmanaged Gigabit PoE Switch
6-Port PoE Gigabit incl 2x1.25G SFP Ports

IG-642RPOE

airlive®

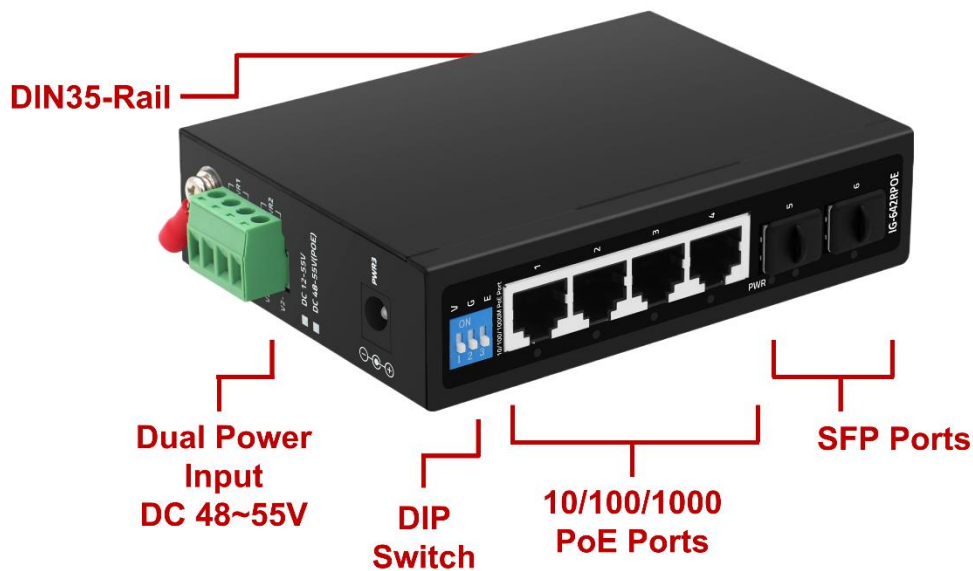|			
802.3af/at 30w	DIN35 Rail Installation	Surge/ESD protection	-40°C~75°C
Dual Power inputs 48~55Vdc	Extend Mode 250m	Hardware VLAN	Gigabit RJ45 & SFP

Overview

Reliable Industrial-grade Unmanaged POE Switch for extreme environment

The AirLive IG-642RPOE is an Unmanaged Gigabit PoE switch with 4 PoE 10/100/1000 BASE-T 802.3af/at ports, each port supplying up to 30 watts of power automatically adaptive, and 2 Gigabit SFP Uplink ports help with connecting the switch to a larger network. Made for extreme environments with its wide temperature range from -40˚c to 75˚c and rugged metal housing; Dual power inputs using a 4pin terminal block (DC48~55V).

DIN35-Rail

Dual Power Input DC 48~55V

DIP Switch

10/100/1000 PoE Ports

SFP Ports

Features

- All 6-port, each port delivers Gigabit speed
- Supports 4 PoE Ports up to 30W /per PoE port
- Extend the network further with 2 SFP slots that accept fiber transceivers and go beyond the limits of Ethernet
- Automatically detect and offer power for connected PD
- DIP Switch
- VLAN Mode, Extended Mode: transmission of up to 250M in Extend Mode
- Surge Protection; ESD Protection

Built for Harsh Environment

The IG-642RPOE switch can operate from -40°C ~ 75°C. And each POE port has 4/6KV surge protection (depending on model). It is the ideal solution for applications which work under harsh environment and require stable network and PoE power such as parking lot or IP surveillance. The IG-642RPOE has a rugged high strength metal case which is rated at IP40 and has a DIN35 Rail connection making it suitable for network use in a heavy industry or factories. AirLive Industrial switches can be placed in almost any harsh environment.

IG-642RPOE

VLAN and Extend Mode

The IG-642RPOE switch can be set in Extend mode to reach a distance of up to 250m (limited to 10Mbps), this can be very useful in locations where it hard to get power to turn on your PD device. The Extend mode makes this easier. The Extend mode is only for Port 1~4 on the switch and when enabled the transmission rate will be 10Mbps. VLAN mode: When the Port Isolation mode is enabled the PoE ports (1~4) cannot communicate with each other and can only communicate with the Up-Link port 5/6.

Dual Power Inputs

The AirLive IG-642RPOE supports 2 DC power inputs, DC48~55V, for power redundancy. Which greatly improves the reliability and uptime of a sensitive network in a harsh environment. When one of the DC power inputs fails, the second input will continue to power on the switch. / DC 2.1 (DC 2.1 cannot be used together with V1 and V2)

Fiber for Long Distance

Extend the network further with the 1.25G SFP slot/
Multimode fiber: 850nm, 1310nm transmission distance: 550m/2Km
Single-mode fiber: 1310nm, 1550nm transmission distance: 20/40/60/80/100/120km
(Distance depended on module used (not included))

Specification

Model	AirLive IG-642RPOE

Hardware

- **Device Interface:**
  4 x 30W PoE 10/100/1000 RJ-45
  2 x 1.25G SFP
  6-port totally
- **Standard**
  IEEE802.3
  IEEE802.3i
  IEEE802.3u 100Base-TX / 100Base-FX
  IEEE802.3ab Gigabit 1000Base-T
  IEEE802.3z Gigabit SX/LX (optical fiber)
  IEEE802.3at/af PoE
  LED Indicators:
  PWR (power supply), 1- 6 Link & ACT

Industry Standard

- **EMI:** FCC Part 15, CISPR (EN55032) class A
- **EMS:**
  EN61000-4-2 (ESD)
  EN61000-4-4 (EFT)
  EN61000-4-5 (Surge)
  Lighting Surge / ESD Protection:
  Surge 6/4KV, ESD 15KV(Air), 8KV (Contact).
  Mechanical
  high-strength metal case, DIN35 Rail Mounting

Power and PoE

- **Protocol**: IEEE802.3at (30W), IEEE802.3af (15.4W)
- **PoE Port**: 4
- **PoE Power Output / PoE Port 1~4:** max. 30 watts per port, (depends on power source used.)

Switch Architecture | Performance

- **Fiber Medium:**
  Multi-mode Fiber: 850nm, 1310nm
  Transmission Distance: 550m/2Km
  Single-mode Fiber: 1310nm, 1550nm
  Transmission Distance 20/40/60/80/100/120Km
- **Switching architecture: Store and Forward**
  Bandwidth: 12Gbps
  Packet Forwarding Rate 8.928Mpps
  MAC Address: 8K
  Jumbo Frames: 9.6Kbytes
  Transfer Mode: Store and Forward
  MTBF: 100000 hours

DIP Switch Control

- **VLAN:** Port isolation mode. In this mode PoE ports (1~4) cannot communicate with each other and can only communicate with the UP-Link port 5/6
- **Default:** Normal mode, all port can communicate with each other, the transmission distance is within 100m, the transmission rate is 10M/100/1000M adaptive.
  Extend: Extension mode, PoE power supply and data transmission distance can be extended to 250 meter at the transmission rate 10Mbps Port 1~4 only.

Power Supply

- **Input Voltage:** DC 48~55V
- **Input Type:** 4 Pin Terminal (block V1+V1- V2+ V1- Supports Dual Power Input, / DC 2.1 (DC 2.1 cannot be used together with V1 and V2)

Environment

- **Operating Temperature:** -40°C to +75°C
- **Storage Temperature:** -40°C to +85°C
- **Humidity**: 5%~95%, non-condensing

Standard package of switch

- **Product size:**
  12 x 8.7 x 3.0 cm(L*W*H)
- **Package size:**
  17.5 x 13 x 5.5 cm(L*W*H)
- **Product Weight/Package Weight**
  W: 0.441Kgs; W: 0.530Kgs
- **Package content**:
  1 x Switch, 1 x Pull Arm

Standard carton package

- **Quantity:** 40 pcs / 1 carton
- **Dimensions:** 54 x 29 x 37.5 cm
- **Carton Weight:** 22.2Kg

Ordering Information

- **Model:**
  IG-642RPOE
- **Name:**
  Industrial Unmanaged Gigabit PoE Switch
  6 Ports Including 4 x PoE, 2 x Uplink SFP

* Specification will be changed without prior notice