

16 Port | Gigabit Easy Smart PoE Switch AI1016GC

Product brochure

Shenzhen Fengrunda Technology Co., Ltd

Product Introduction:

AI1016GC is an easy smart PoE switch specially designed for security transmission and WIFI coverage. It can meet the PoE power supply requirements of various types of devices such as WIFI AP, IP-camera, WIFI bridge, and IP phone. The product has 16 gigabit PoE ports and 2 gigabit SFP optical ports, which are suitable for network access and edge aggregation. The product has 4 working modes, AI VLAN mode, AI Extend mode, AI PoE mode, AI Storm Control mode; by default, all ports communicate freely, and AI VLAN mode is enabled to isolate ports 1-16 from each other, which can effectively suppress network storms. Improve network performance; enable AI Extend mode, the effective transmission distance of 1-8 ports can reach 250 meters, suitable for long-distance monitoring and power supply; enable AI PoE mode, the switch automatically detects the working condition of the PD device, and automatically restarts the device when abnormal devices are found; And the product also supports common management protocols, such as: VLAN, QOS, PoE settings, port statistics, system configuration and other functions. It is the best choice for PoE networking in hotels, campuses, factory dormitories and small and medium-sized enterprises.



Main Features:

Port 6KV Lightning Protection

- All ports support 6KV lightning protection, support power supply over-temperature protection, over-voltage protection, surge current protection and other protection features.

Switching Feature

- Non-blocking switching architecture, all ports support wire-speed forwarding.
- Provides 16 Gigabit RJ45 ports and 2 Gigabit SFP ports.
- Supports IEEE 802.3x full-duplex flow control and half-duplex backpressure flow control.
- Supports auto-flipping of upstream ports (Auto MDI/MDIX).

AI Smart Button

- AI Extend: 1-8 ports support 250 meters long-distance power supply (recommended to use super five or more network cables);
- AI VLAN: Isolate ports 1-16 from each other, which can effectively suppress network storms and improve network performance;
- AI Storm Control: Limit the BUM packets in case of clogging;
- AI PoE: Automatically detect the power receiving port, find a dead device, and restart the device after power off;

PoE Features

- Compliant with the IEEE802.3af&at standard, the maximum PoE power of a single port is 30W.
- Support PoE short circuit protection, over current protection, over temperature protection, etc.
- Support AI PoE, restart dead device.

Management Features

- System management: device information, IP configuration, account management, system upgrade, etc.
- Monitoring and management: port statistics
- Device configuration: VLAN, QoS, port configuration, port isolation, port mirroring, etc.
- Device management: supports WEB UI, Apollo cloud management

Product Specifications:

Hardware	
Network Interface	• 16 * 10/100/1000Mbps RJ45 PoE Ports • 2 * Gigabit SFP fiber ports
Network Protocol Standard	• IEEE 802.3,IEEE 802.3i,IEEE 802.3u,IEEE 802.3ab, IEEE 802.3z,IEEE 802.3ad,IEEE 802.3x,IEEE 802.1p, IEEE 802.1q,IEEE 802.1d,IEEE 802.1s,IEEE 802.1w, IEEE 802.3af,IEEE 802.3at
Performance	• Switching Capacity: 36Gbps (non-blocking) • Packet forwarding rate: 26.8Mpps • MAC address table: 8K • Forwarding mode: store and forward
LED Indicator	• Link/Act Indicator: 16 • PoE Indicator: 16 • SFP Indicator: 2 • SYS Indicator: 1
POE Pin	• 1/2 (+) , 3/6 (-)
Power Support	• Input: AC 100-240V/50-60Hz • Single port maximum output power: 30W • The maximum power of the whole machine: 150W
Physical Specifications	• Dimensions (LxWxH): 440mm*180mm*44mm
Environmental Specifications	• Working temperature: 0°C~40°C • Storage temperature: -40°C ~ 70°C • Working humidity: 10%~90% RH without condensation • Storage humidity: 5%~90% RH without condensation
Safety Regulations	• CE/ROHS/FCC

Software	
AI Function	AI VLAN AI Extend AIPoE AI Storm Control
System Management	Device information Networking configuration Account management System reset System upgrade Factory data reset
Monitoring Management	Port statistics
Port Configuration	Port configuration Port isolation Port mirroring
QoS	Storm suppression Port rate limit
VLAN	VLAN member VLAN configuration
PoE Configuration	Port POE management POE priority configuration
Management	Support WEB UI