

2300 Series 18 Ports PoE++ Gigabit Switch

Unmanaged Plug and Play Ethernet PoE++ Fiber Switch

Infinique's IN2300U-18-1200 is an Ethernet PoE++ Switch of Gigabit uplink high performance. It has 16 Port Ethernet interfaces and high density Power-over-Ethernet (PoE) capabilities, making it an ideal choice for use as an access switch in network environments where high density PoE++ power is required. The switch delivers PoE power up to 90W in a single port suitable for power devices like laptops and LED display monitors. It is backward compatible with previous PoE and PoE+ standards while adhering to overall IT network design, compliance, and performance requirements.

The switch has wide-ranging features and offers a cost effective and reliable communication network suitable for video surveillance applications, small business IT networks, smart buildings, and other similar installations where a cost-effective and reliable communication network is required.

Features and Benefits

- Plug and Play PoE+ Connectivity**
 Unmanaged Plug and Play PoE++ Switch with 16 RJ45 Ethernet 10/100/1000Base-T PoE Ports with 71W power per port and 2 SFP 1G Fiber Ports
- Excellent Performance**
 Switching capacity of 52 Gbps and forwarding speed of 1.488Mbps with 10K packets
- Robust Design**
 Aluminum Alloy Metal Enclosure, Fan-less Design, Excellent Heat Dissipation, Stable Operation, 1U Rack Mountable
- Intelligent PoE Power Management**
 Automatic Detection, Low Power Consumption, Port Prioritization, PoE Port Power Allocation
- Standards**
 Complies with IEEE 802.3af/at/bt, 802.3, 802.3u, 802.3x, 802.3ab, 802.1X, 802.1Q, 802.1P Standards

CONSTRUCTION



Dimensions

Width: 440 mm
 Height: 44.5 mm
 Depth: 290 mm

2300 Series 18 Ports PoE+ + Gigabit Switch

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FEATURES AND BENEFITS

Robust Design

Aluminum Alloy Casing, Unmanaged PoE+ + Ethernet Switch, 1U Rack Mountable or Desktop, IP40 Excellent Heat Dissipation with Fan-less design with operational temperature range from -20 to 55°C

High Density Gigabit Ethernet PoE+ Switch

16 x 10/100/1000Base-T RJ45 Ethernet PoE+ Ports, 90W per Port (IEEE 802.3af/at/bt), Total Power Budget of 1200W
2 x 1G Uplink SFP+ Ports (Data), Supports Single or Dual Fiber of Single or Multimode, LC Module
Auto-sensing, Full Duplex (IEEE 802.3x) or Half Duplex, MDI/MDI-X, Non-blocking Wire-Speed Forwarding
Enables ready-to-use PoE devices, such as High Definition IP Cameras, Wireless Access Points, and IP Phones

Intelligent PoE Power Management

RJ45 Ports can support POE power supply to meet the needs of security monitoring, teleconferencing system, wireless coverage, laptops, LED Monitors and other scenarios.
IEEE 802.3af/at/bt PoE Standard, without damaging non-PoE devices

Secure, Stable and Reliable

802.1X authentication
Provides stable PoE power output
LED Indicators to show Power, Link and PoE Power Status
Lightning Protection: 4KV 8/20us, Protection level: IP30
CE, FCC, RoHS Compliant

Compliance

Emissions:
EN 55032:2015+A1:2020
IEC 61000-3-2:2019+A1:202
IEC 61000-3-3:2013+A2:2021
Immunity:
EN 55035:2017+A11:2020
Safety:
IEC 62368-1

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TECHNICAL SPECIFICATIONS	
10/100/1000 PoE+ + Ports	16 x RJ-45 Ports
100/1000 SFP Uplink Ports	2 x 1G SFP Fiber Ports
PoE Standard	IEEE 802.3af (PoE), IEEE 802.3at (PoE+), IEEE 802.3bt (PoE+ +)
PoE Ports	Ports 1-16, End-Span
Network Protocols	IEEE 802.3, 10BASE-T Ethernet, IEEE 802.3u, Fast Ethernet Standard IEEE 802.3ab, Gigabit Ethernet Standard, IEEE 802.3z 1000Base-X 1 Gigabit over Fiber IEEE 802.3x, Full-Duplex Ethernet Data Link Layer Flow Control
Features	Half/Full-Duplex Operation at 10/100Mbps Full-Duplex Operation at 1000Mbps Auto-Negotiation for each port Auto MDI/MDIX
LED Indicator Status	Power: Green, Network Per Port Link/Act: Yellow, SFP: L/A Green, PoE: Green
RJ-45 Interface	10/BASE-T, 100BASE-TX, and 1000BASE-T
Factory Reset	Factory Reset Button
SWITCH PERFORMANCE	
Switching Bandwidth	52 Gbps
Forwarding Rate	26.78 Mpps @64byte packets
Network Delay	< 20 msec
Buffer Memory	4 Mbits
MAC Addresses Table Size	8K entries
Jumbo Frame	9.2K
MTBF	190,000 hours
POE AND POWER MANAGEMENT	
PoE Power Budget	1200W, Max 90W Per Port, IEEE 802.3af/at/bt
Power Supply Pin	Default: 1/2 (+), 3/6 (-), 4/5 (+), 7/8 (-)
Power Supply	Built-in, AC100~240V 50-60Hz 6.6A x 2
Power Consumption	Standby <25W, Full Load <1200W
Power Input Interface	Dual Input Power Interface, AC Power Supply Priority, Anti-reverse Protection, power-off automatic switching DC connection; 2 set DC12-48V input interfaces; Way Alarm Switch Interface; 1 set of AC Power Input Interface
Green Energy (EEE)	IEEE 802.3az Energy Efficient Ethernet Task Force
ENVIRONMENT	
Operating Temperature	-20°C to 55°C
Operating Relative Humidity	10% - 90%, non-condensing
Storage Temperature	-40°C to 80°C
Storage Relative Humidity	5% - 90%, non-condensing
Working, Storage Altitude	up to 10,000 ft / 3000 m
PHYSICAL CHARACTERISTICS	
Dimensions	440 (w) x 275 (d) x 44 (h) mm
Weight	5.8 kg
Mounting Enclosure	1U, 19 inch rack mountable, desktop

ORDERING INFORMATION	
PART NUMBER	DESCRIPTION
IN2300U-18-1200	Infinique IN2300U Series 18 Ports Gigabit PoE+ + Switch, 16 1G PoE+ Ports, 2 SFP 1G Ports, Switching Capacity 52 Gbps, PoE Power Budget 1200W, Plug and Play Configuration, Power Cord Included, Desktop or Rack Mountable
IN-SFP-T1G-SMLCD	Infinique 1G SFP Module Transceiver, 1310nm, 20 KM, Dual Fiber, Singlemode LC Duplex
IN-SFP-T1G-MMLCD	Infinique 1G SFP Module Transceiver, 850nm, 500 M, Dual Fiber, Multimode LC Duplex



Infinique, a Canadian company is a manufacturer of high performing end-to-end solutions in copper, fiber and video surveillance systems. For more information visit our website at www.infinique.com or email us at sales@infinique.com.