

I2000U Series

Infinique Networks Layer2 Access Switch

Easy to Deploy Unmanaged Gigabit Layer2 Switching Solution



Overview

Infinique's 2000 Series Switches are a Layer-2 high performance unmanaged network switches that are simple plug-and-play and designed for easy of use. These Layer-2 switches offer excellent high speed performance through line-rate forwarding on all ports, and have advance redundancy and reliability features implemented through the industry standard protocols like the Ethernet Ring Protection Switching Protocol.

These switches meet the comprehensive demands of a Small and Medium Business customer requirements such as networks of a branch office, hotels, hospitals, restaurants, school, warehouses and retail stores.

Product Highlights

- High performance Gigabit Ports for Fast Connections
- Non-blocking High Speed Forwarding for Efficiency
- Universal 10/100/1000 Mbps ports for legacy to latest Gigabit devices
- Auto MDI/MDIX crossover for easy cabling
- Plug and Play PoE+ connectivity with Intelligent PoE power allocation
- Robust Aluminum metal alloy enclosure with Fan or Fan-less design for excellent heat dissipation
- Supports Industry Standards such as IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3x, and IEEE 802.3az

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Series Snapshot

Model/Max. Ports	8	10	18	18	24	26	26	26
Port Type	RJ45	8	9	16	16	24	24	24
	SFP		1	2	2		2	2
PoE+		140W		250W			180W	380W
FAN	No	Yes	No	Yes	No	No	Yes	Yes
Switching Capacity (Gbps)	16	20	36	36	48	52	52	52

Refer Ordering Section for Part Numbers

Salient Features

Plug-n-play

Infinique’s I2000U series are Unmanaged network switches which offer universal port support with true plug-n-play. All ports are designed to support 10/100/1000 Mbps connections to provide a flexible and adaptive network connections.

Power over Ethernet (PoE) Support

The I2000U series switches have models with and without PoE support. The PoE supported models provide power over Ethernet which allows a Powered Device (PD) to be powered through the same standard Ethernet cable that transmits data.

Non-Blocking High Speed Forwarding

The I2000U series switches are designed for non-blocking high-speed data forwarding across all the ports, providing an efficient and responsive network. Whether you are using data-intensive applications or have demanding workloads, these switches can guarantee a smooth flow of data, making it an ideal solution for diverse networking scenarios.

Line Speed Forwarding with Auto MDI/MDIX

Each port on I2000U series switches ensures line-speed data forwarding, delivering optimum performance for your network traffic. The built-in MDI/MDIX auto crossover feature eliminates the need for using any special crossover cables, making network connections hassle-free and straightforward without any of the complexities of cable management.

Reliable Data Transmission

Built with a store and forward switching mechanism, the I2000U series network switches guarantee reliability of data transmission. This method ensures that data packets are processed accurately with efficiency, reducing the chances of packet loss and enhancing overall network performance.

Industry Standards Compliance

The I2000U series switches are designed for industry standards and include various IEEE standards such as IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3x, and IEEE 802.3az. These standards make sure that your network operates with the latest technologies and is compatible with a wide range of networking equipment, providing interoperability and future-proofing your infrastructure investment.

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TECHNICAL SPECIFICATIONS

Non-POE Models

	I2000U-8T	I2000U-16T-2G	I2000U-24T	I2000U-24T-2G
General				
10/100/1000 Ports	8x RJ-45 Ports	16x RJ-45 Ports	24x RJ-45 Ports	24x RJ-45 Ports
SFP 1G Ports	NA	2x 1G Fiber Ports	NA	2x 1G Fiber Ports
Console Ports	NA	NA	NA	NA
Host Support	IPv4 / IPv6 ready			
LED Indicator Status	Power: Yellow, System: Yellow, Network: Link/Act Yellow, SFP: Link/Act Green, PoE: Green			
Factory Reset Button	NA			
Performance				
Switching Bandwidth	16Gbps	36Gbps	48Gbps	52Gbps
Transmission	Store and Forward			
Forwarding Rate	11.90mpps	26.78mpps	35.71mpps	36.68mpps
Buffer Memory	4.1Mbit			
Jumbo Frame	10Kbytes			
MAC Addresses Table Size	8K			
MTBF	300,000 hours			
Power Management				
Power Supply Type	Fixed			
Power Input	AC 100~240V 50~60Hz			
Max Power Consumption	5.2W	8W	16W	15W
Environment				
Temperature (Celsius)	Operating: -5 °C to +45 °C; Storage: -40 °C to +70 °C			
Humidity	Operating: 10% to 90% non-condensing; Storage: 5% to 95% non-condensing			
Heat Dissipation (BTU)	13.78	50	54.59	56.64
Physical				
Dimensions (WxDxH) mm	220x160x44.2	440x208x44.2	280x126x44.2	442x220x44.2
Weight	1.6Kg	3.2Kg	1.7Kg	2.9Kg
Mounting Options				
Standards and Compliance				
Safety	CE/LVD EN 62368-1 RoHS			
EMC/EMI	EN 55032, EN 55035, EN 61000-3-2, EN 61000-3-3			
Green Energy (EEE)	IEEE802.3az Energy Efficient Ethernet Task Force			
Lighting Protection	4KV			

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TECHNICAL SPECIFICATIONS

PoE Models

I2000U-1T-8P-1G-140 I2000U-16P-2G-250 I2000U-24P-2G-180 I2000U-24P-2G-380

General

10/100/1000 Ports	9x RJ-45 Ports	16x RJ-45 Ports	24x RJ-45 Ports	24x RJ-45 Ports
SFP 1G Ports	1x Fiber Port	2x 1G Fiber Ports	2x 1G Fiber Ports	2x 1G Fiber Ports
Console Ports	NA	NA	NA	NA
Host Support	IPv4 / IPv6 ready			
LED Indicator Status	Power: Yellow, System: Yellow, Network: Link/Act Yellow, SFP: Link/Act Green, PoE: Green			
Factory Reset Button	NA			

Performance

Switching Bandwidth	20Gbps	36Gbps	52Gbps	52Gbps
Transmission	Store and Forward			
Forwarding Rate	14.88mpps	26.78mpps	38.68mpps	38.68mpps
Buffer Memory	4.1MB			
Jumbo Frame	10Kbytes			
MAC Addresses Table Size	8K			
MTBF	300,000 hours			

Power Management

Power Supply Type	Fixed			
Power Input	AC 100~240V 50~60Hz			
Max Power Consumption	150W	297W	200W	400W
PoE Standard	IEEE802.3af/at			
PoE Ports	8	16	24	24
PoE Power Budget	140W	250W	180W	380W

Environment

Temperature (Celsius)	Operating: -5 °C to +45 °C; Storage: -40 °C to +70 °C			
Humidity	Operating: 10% to 90% non-condensing; Storage: 5% to 95% non-condensing			
Heat Dissipation (BTU)	554.79	1014.39	736.99	1278.22

Physical

Dimensions (WxDxH) mm	280x180x44.2	440x240x44.2	440x208x44.2	440x208x44.2
Weight	2.5Kg	3.5Kg	3.7Kg	3.7Kg
Mounting Options				

Standards and Compliance

Safety	CE/LVD EN 62368-1 RoHS
EMC/EMI	EN 55032, EN 55035, EN 61000-3-2, EN 61000-3-3
Green Energy (EEE)	IEEE802.3az Energy Efficient Ethernet Task Force
Lighting Protection	4KV

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Ordering Information

Part Number	Description
Non-PoE Models	
I2000U-8T	Infinique I2000U Series Layer 2 1G Unmanaged Access Switch, 8x 100/1000M Ethernet Ports, Single AC Power
I2000U-16T-2G	Infinique I2000U Series Layer 2 1G Unmanaged Access Switch, 16x 100/1000M Ethernet, 2x 1G SFP Ports, Single AC Power
I2000U-24T	Infinique I2000U Series Layer 2 1G Unmanaged Access Switch, 24x 100/1000M Ethernet Ports, Single AC Power
I2000U-24T-2G	Infinique I2000U Series Layer 2 1G Unmanaged Access Switch, 24x 100/1000M Ethernet, 2x 1G SFP Ports, Single AC Power
PoE Models	
I2000U-1T-8P-1G-140	Infinique I2000U Series Layer 2 1G Unmanaged Access Switch, 8x 100/1000M PoE Ethernet Ports, 1x 100/1000M Ethernet, 1x 1G SFP Ports, 140W PoE Budget, Single AC Power
I2000U-16P-2G-250	Infinique I2000U Series Layer 2 1G Unmanaged Access Switch, 16x 100/1000M Ethernet, 2x 1G SFP Ports, 250W PoE Budget, Single AC Power
I2000U-24P-2G-180	Infinique I2000U Series Layer 2 1G Unmanaged Access Switch, 24x 100/1000M PoE Ethernet, 2x 1G SFP Ports, 180W PoE Budget, Single AC Power
I2000U-24P-2G-380	Infinique I2000U Series Layer 2 1G Unmanaged Access Switch, 24x 100/1000M PoE Ethernet, 2x 1G SFP Ports, 380W PoE Budget, Single AC Power

Customer Support, Service and Warranty

Infinique network switches come with a standard one-year limited hardware warranty that covers repair or replacement of parts. Cloud and Software: 90 days, can be extended with support contract.