I infinique™

IN1200 Series Full Gigabit LAN Switch

Full Gigabit Ethernet Managed LAN Switch

IN1200 Gigabit Layer2 Stackable Managed Switches are designed for mid sized installations. They provide a bandwidth of 10 Gigabit Uplinks to deliver high performance, flexibility and fault tolerance. With 24/48 Gigabit Ethernet RJ45 Ports, 4 10GbE SFP+ Uplink Ports, advanced security features, Quality of   Service, these switches can be used as core and distribution layer switches. Easy switch management and high switching capacity makes them suitable for a wide range of applications.

The IN1200 switches has a high switching capacity of 598Gbps, and with speeds that reach 10Gbps, it can support current and next-generation wireless speeds and standards. Multicast, STP, RTSP Support, QoS, Jumbo Packet Processing, and other supported standards assures superior performance.

Advanced security features such as MAC-IP Binding,

Features and Benefits

- **High Density PoE+ Connectivity**
  Layer2 LAN Switch with 24/48 Gigabit Ethernet RJ45 Ports, and 4 10GbE SFP+ Uplink Ports
- **Excellent Performance**
  Switching capacity of 598 Gbps and forwarding speed of 131 mpps with 64 MB packets
- **Robust Design**
  Aluminum Alloy Metal Enclosure, Fan-less Mute Design, Excellent Heat Dissipation, Stable Operation, 1U Rack Mountable,
- **Intelligent PoE Power Management**
  Low Power Consumption, Port Prioritization, Network Management, Priority Setting, Power Status Viewing, Time Scheduling
- **Standards**
  Supports QOS, MSTP, IGMP, RADIUS and complies with 802.3at, 802.3, 802.3u, 802.3x, 802.3ab, 802.1X, 802.1Q, 802.1P Standards

VLAN, Access Control Lists (ACLs), Port Isolation, Storm Control, Dynamic ARP Inspection and User Authentication through RADIUS are supported. Additionally it has features such as port isolation and storm control to reduce the network risks. The IN1200 Gigabit Managed LAN Switch comes in compact metal enclosures, that can be rack mounted.

CONSTRUCTION

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

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FEATURES AND BENEFITS

Robust Design

Aluminum Alloy Casing, Layer 2 fully managed Ethernet Switch, 1U Rack Mountable, IP40
Excellent Heat Dissipation with Fan-less design with operational temperature range from -40 to 75°C
Shock, Vibration, and Surge Proof with electrical noise immunity
Low Power Consumption with improved uptime, performance, and safety
Complies with industry specifications for industrial automation, ITS, and challenging environments

High Density Gigabit Ethernet PoE+ Switch

24/48 Gigabit RJ45 Ethernet Autosensing Ports, 4 x 10G SFP+ Ports,
1 x Gigabit RJ45 RJ-45 Console Port
Supports Single or Dual Fiber of Single or Multimode, LC Module
Auto-sensing, Full Duplex (IEEE802.3x) or Half Duplex, MDI/MDI-X, Non-blocking Wire-Speed Forwarding
Extends geographical scalability where longer distance connectivity is required

Wide-Ranging Features

802.1Q VLAN, flexible VLAN division, Voice VLAN, and QinQ configuration, QoS, Priority mode based on
802.1P, Port and DSCP, Queue scheduling algorithm including EQU, SP, WRR & SP+WRR
ALC, filter data packet through configuring matching rules, processing operation & time permission,
provide flexible and safe access control
IGMP V1/V2 and IGMP Snooping
ERPS/STP/RSTP/MSTP, Static and Dynamic Aggregation.

Easy and User-friendly Operation

Allows easily configuration and monitoring via a web browser.
Supports CLI Command Line (Console, Telnet), SNMP (V1/V2/V3)
HTTPS, SSLV3, and SSHV1/V2
RMON, System Log, LLDP and Port Traffic Statistics
CPU Monitoring, Memory Monitoring, Ping Test, and Cable Diagnose

Secure, Stable and Reliable

802.1X authentication, Port Isolation, Storm Control, IP-MAC-VLAN-Port Binding
High Redundancy Power Supply, to provide long term and stable power output
LED Indicators to show Power and Link Status
CCC,CE, FCC, RoHS Compliant

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TECHNICAL SPECIFICATIONS	IN1200M-28-L	IN1200M-52-L
10/100/1000 Ports	24 x 1G RJ-45 Port	48 x 1G RJ-45 Port
10G SFP Uplink Ports	4 x 10G SFP Fiber Ports	
Serial Console Ports	1 x 1G RJ-45 Port	
Network Protocols	IEEE 802.3,10BASE-T Ethernet IEEE 802.3u, Fast Ethernet Standard IEEE 802.3ab, Gigabit Ethernet Standard IEEE 802.3z, Gigabit Ethernet Fiber Standard IEEE 802.3ae,10G Ethernet Standard 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 Port Based Speed Limit for Input/Output Bandwidth Management	
Host Support	IPv4 / IPv6 ready	
LED Indicator Status	Power: Yellow, System: Yellow, Network: Link/Act Yellow, SFP: L/A Green	
Factory Reset	Factory Reset Button	
SWITCH PERFORMANCE		
Switching Bandwidth	598 Gbps	
Forwarding Rate	131 mpps with 64 byte packets	
Number of Queues	8 Output Queues for each port	
MAC Addresses Table Size	32K	
IGMP Groups	1024 Multicast Groups	
Number of VLANs	1024	
MTBF	100,000 hours	
Buffer Memory	32M	
NETWORK MANAGEMENT		
Interface	IEEE802.3X Full Duplex, Broadcast Storm Control on Port Speed, Message Flow Speed Limit for Access Port, Minimum Particle Size 64Kbps. Port Temperature Protection Setting, Port Green Ethernet Energy Saving Setting	
Layer 3 Features	L3, L2+ Network Management, IPV4/IPV6 Management, L3 Full Line Speed Soft Routing, Forwarding, Static Route, Default Route @ 128 pcs, APR @ 1024 pcs	
VLAN	4K VLAN based on Port, IEEE802.1q, VLAN based on protocol, VLAN based on MAC Voice VLAN, QinQ Tunneling, Port configuration of Access, Trunk, Hybrid	
Port Aggregation	LACP, Static Aggregation, Max 40G Aggregation Groups, 8 Ports Per Group	
Spanning Tree	STP (IEEE802.1d),RSTP (IEEE802.1w),MSTP (IEEE802.1s)	
Industrial Ring Network Protocol	G.8032 (ERPS), Recovery time less than 20ms, 255 Ring, Max 1024 Devices per Ring	
Multicast	IGMP Snooping v1/v2, 1024 Multicast Groups, Fast log out, MLD Snooping v1/v2,Multicast VLAN	
Port Mirroring	Bi-directional data mirroring based on port	
Quality of Service (QoS)	Diff-Serv QoS, Priority Mark/Remark, 8 Output Queues per port, 802.1p/DSCP Priority Mapping, Queue Scheduling Algorithm (SP, WRR, SP+WRR), Flow-based Rate Limit, Packet Filter, Redirection	
ACL	L2 to L4 Packet Filtering, matching first 80 bytes message, Provide ACL based on MAC, Destination MAC Address, IP Source, Destination IP, IP Protocol Type, TCP/UDP Port Range, VLAN, etc., VLAN and Port based ACL	
Security	User Hierarchical Management and Password Protection, SSH 2.0,SSL, Port Isolation, ARP Message Speed Limit, Storm Control, Host Datum Backup, 802.1X Multi-Domain Authentication, MAC Address Authentication, Mac Black Holes, IP Source Protection AAA and RADIUS, MAC Learning Limit, ARP Inspection, Anti-DoS Attack, IP-MAC-VLAN-Port Binding	
DHCP	DHCP Client, DHCP Snooping, DHCP Server, DHCP Relay	
Management	Console/AUX Modem/Telnet/SSH2.0 CLI, Web Management (HTTPS), Cable Diagnose, LLDP, FTP Download and Management, TFTP, Xmodem, SFTP, SNMP V1/V2C/V3, One-key Recovery, NTP, System Work Log, Ping Test, CPU Instant Utilization Status View, Smart Network Management System Platform	
System	Web Browser: Mozilla Firefox 2.5 or higher, Google Chrome V42 or higher, Internet Explorer10 or later Network Cable: Category 5 or Higher. PC Operating System: Microsoft Windows, Linux, or Mac OS X	

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POWER MANAGEMENT	IN1200M-28-L	IN1200M-52-L
Power Supply Pin	Default: 1/2 (+), 3/6 (-)	
Power Supply	Built-in, AC100~240V 50-60Hz	
Power Consumption	50W	
Power Input Interface	Dual input Power Interface, AC power supply priority, support 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)	IEEE802.3az Energy Efficient Ethernet Task Force	
ENVIRONMENT		
Operating Temperature	-20℃ to 55℃	
Operating Relative Humidity	10% - 90%, non-condensing	
Storage Temperature	-40℃ to 80℃	
Storage Relative Humidity	5% - 90%, non-condensing	
Working, Storage Altitude	up to 10,000 ft / 3000 m	
PHYSICAL CHARACTERISTICS		
Dimensions	440 (w) x 290 (d) x 44.5 (h) mm	
Weight	4.8 kg	
Mounting Enclosure	1U, 19 inch rack mountable	
STANDARDS COMPLIANCE		
Safety	CE/LVD EN 60950, RoHS	
Emissions	CE, FCC Part 15 Class B, VCCI Class B, EN 55022 (CISPR 22) Class B	
Lightning Protection	Lightning protection: 6KV 8/20us; Protection level: IP40, IEC61000-4-2(ESD):±8kV contact discharge,±15kV air discharge IEC61000-4-3(RS):10V/m(80~1000MHz) IEC61000-4-4(EFT): power cable:±4kV; data cable:±2kV IEC61000-4-5(Surge):power cable:CM±4kV/DM±2kV; data cable:±4kV IEC61000-4-6(radio frequency transmission):10V(150kHz~80MHz) IEC61000-4-8(power frequency magnetic field):100A/m;1000A/m ,1s to 3s IEC61000-4-9(pulsed magnet field):1000A/m IEC61000-4-10(damped oscillation):30A/m 1MHz IEC61000-4-12/18(shockwave):CM 2.5kV,DM 1kV IEC61000-4-16(common-mode transmission):30V; 300V,1s FCC Part 15/CISPR22(EN55022):Class A IEC61000-6-2(Common Industrial Standard)	
Mechanical	IEC60068-2-6 - Anti Vibration IEC60068-2-27 - Anti Shock IEC60068-2-32 - Free Fall	
ORDERING INFORMATION		

PART NUMBER	DESCRIPTION
IN1200M-28-L	Infinique IN1200 Series 28 Ports Full Gigabit Ethernet Managed Core Switch, 24 Gigabit RJ45 Ports, 4 10Gigabit SFP+ Ports, Switching Capacity 598 Gbps, Power Cord Included, Desktop or Rack Mountable
IN1200M-52-L	Infinique IN1200 Series 52 Ports Full Gigabit Ethernet Managed Core Switch, 48 Gigabit RJ45 Ports, 4 10Gigabit SFP+ Ports, Switching Capacity 598 Gbps, 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

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