

IN8100M Series Full Gigabit Core Switch

32 Ports Full Gigabit Ethernet Managed Core Switch

IN8100M 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 Gigabit SFP Optical Ports, 4 10GbE SFP+ Uplink Ports, 4 Gigabit Ethernet RJ45 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 IN8100M-32-C has a high switching capacity of 368Gbps, 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,

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 IN8100M-32C Gigabit Managed Core Switch comes in compact metal enclosures, that can be rack mounted.

Features and Benefits

- **High Density PoE+ Connectivity**
Layer2 Core Switch with 24 Gigabit SFP Optical Ports, 4 10GbE SFP+ Uplink Ports, 4 Gigabit Ethernet RJ45 Ports
- **Excellent Performance**
Switching capacity of 386 Gbps and forwarding speed of 131 mpps with 32 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, PoE Port Power Allocation, 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

CONSTRUCTION



Dimensions
Width: 440 mm
Height: 44 mm
Depth: 199 mm

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FEATURES AND BENEFITS

Robust Design

Aluminum Alloy Casing, Layer 2 fully managed Core 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 x 1G Uplink SFP+ Ports, 4 x 10G SFP+ Ports, 4 x Gigabit RJ45 Ethernet Autosensing 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	
1G SFP Uplink Ports	24 x 1G SFP Fiber Ports
10G SFP Uplink Ports	4 x 10G SFP Fiber Ports
10/100/1000 Ports	4 x Gigabit RJ45 Ethernet Autosensing 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 Explorer 10 or later Network Cable: Category 5 or Higher PC Operating System: Microsoft Windows, Linux, or Mac OS X

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POWER MANAGEMENT	
Power Supply Pin	Default: 1/2 (+), 3/6 (-)
Power Supply	Built-in, AC100~240V 50-60Hz
Power Consumption	60W
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°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 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
IN8100M-32-C	Infinique IN8100M Series 32 Ports Full Gigabit Ethernet Managed Core Switch, 24 Gigabit SFP Ports, 4 10Gigabit SFP+ Ports, 4 Gigabit RJ45 Ports, Switching Capacity 368 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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Product specification, design and availability subject to change without prior notice.