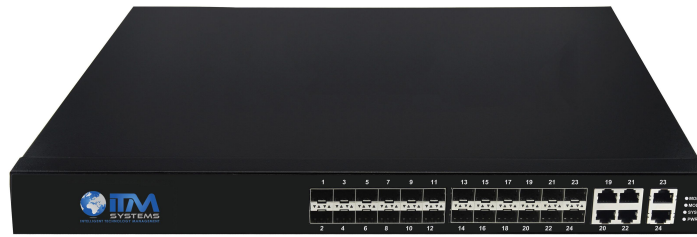


10Gigabit Ethernet Switch

ITM-5704-28GC



L2-L4 - 24+6+4 10Gigabit Ethernet Switch

★ Product Overview

10Gigabit Ethernet Switch ITM-5704-28GC is a standard layer 3 non-blocking switch .This product, based on high-performance ASIC chip technology, with the modular structure design, provides 24 1000M SFP optical ports, 6 10/100/1000M RJ45 combo ports, and 4 scalable 10Gb optical ports, which has the capability of multilayer switching and wire-speed routing forwarding. At the same time, this product provides a complete IPv4/IPv6 routing, including tunnelling and IP multicasting. Users can set each function of switch via Web, SNMP, etc. ITM-5704-28GC support VPN,DOS defense, static routing, RIP, OSPF, BGP, PIM-SM, PIM-DM, DVMRP, NAT, Qos, RSTP, MSTP, VLAN, Port Security, storm-control, ACL access control and other functions on layer 2 and layer 3, which is very suitable for theaggregation application of large-scale network and the core application of medium and small-sized network.

★ Product Features

1 . High Performance

- (1) With 128G backplane capacity
- (2) Hardware routing, wire-speed layer 3 switching packet forwarding rate is up to 95.232Mpps
- (3) Able to be deployed in the core of metropolitan area network , and provide several last kilometer technology

2 . Safe amd Reliable

- (1) Provide DOS,DDOS, spoofing and virus defense
- (2)Support IEEE802.1x, provide port-based user authentication, network shield, safety control, and policy control technology
- (3) Restrict the maximum number of hosts connected with the port, multi-binding the Ethernet interface , increasing bandwidth and system redundancy
- (4) Powerful ACL, support L2-L4 data filtering
- (5) Support QinQ function

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(6) Policy control list and flow regulation

3 . Convenient Maintenance

(1) Use clustering technology, support more than one device stacking, with an unified IP Address for centralized management, saving the address resources

(2) Able to be managed via Web, SNMP, etc

(3) Support XModem protocol, use TFTP/ZMODEM for software upgrading and BootRom upgrading

(4) Support DHCP server and relay function, dynamically assign IP address

(5) Support SFP+, simulataneously downward compatible XFP

(6) Provide redundant power supply, quick failover and quick connection, greatly increasing the reliability of the system

4 . Powerful Flow and Broadcast Management

(1) Automatically detecting and controllig broadcast storm , support IGMP message detection, effectively limit the flooding of broadcast packets.

(2) Support full duplex mode and half duplex mode flow control

(3)Support Ethernet interface taking1M as the step length for rate limiting

(4) Advanced buffer management, support 802.1p protocol, each por 8 transmitting queues mapping 802.1p 8 priority

(5) Support IP multicast and QoS

5 . Multiple Routing Policies

(1) Support static routing

(2) Support RIP v1/v2, OSPFv2, BGPv4 and other dynamic routing protocols

(3) Support PIM-SM, PIM-DM, DVMRP and other multicast routing protocols

(4) Support MPLS-based exchange routing and ECMP routing load balanced

★ Product Specification

Product Model	ITM-5704-28GC
Basic characteristics	
Fixed Port	24*1000M SFP optical ports, 6*10/100/1000M RJ45 combo ports, Extension 4* 10Gb SFP+ ports
Backplane capacity	128Gbps
Packet Forwarding Rate	95.232Mpps
Chip	VITESSE
Processor	RISC 600MHz
Flash Memory Capacity	8MB
Memory Capacity	128MB
Address Table	32K

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Queue Buffer	64MB
Product characteristics	
Spanning Tree	Support STP, RSTP, MSTP Support PVST/PVST+
VLAN	Support port-based VLAN Support MAC-based VLAN Support 802.1Q tagging VLAN Support Super Vlan Support Private Vlan Support GVRP with dynamical VLAN configuration Support QinQ and flexible QinQ Support Voice VLAN
Flow Control	Based on a standard IEEE 802.3x flow control Using IEEE 802.1Qbb priority flow control Support CAR
Broadcast Control	Restraining broadcast storm, stop transmitting while reaching the critical point
Multicast Control	IGMP Snooping multicast message automatically monitoring
Multicast Routing	IGMP v1/v2/v3, MLDv2 PIM-SM, OLINK&PIM-DM DVMRP (Distance Vector Multicast Routing Protocol) GMRP (generic attribute registration protocol)
Port Binding	Maximum 8 per group , and support 128 groups Dinamic LACP or static aggregation
Port Mirroring	Support mirroring based on flow classification and port mirroring
Stacking	16 sets hard stacking, 32 sets soft stacking Using clustering technique, with an unifie IP address for centralized management , saving the address resources
Routing Management	Static routing RIP v1/v2, OSPFv2, BEIGRP (compatible with Cisco EIGRP), BGPv4, ISIS, BGP Anti-virus and intelligent routing function
Policy Routing	Support IP-based policy routing
Proxy Function	Support Proxy ARP and DNS Proxy
Redundancy Backup	Support VRRP, HSRP Hot Standby Router Protocol
DHCP	Support DHCP Server, DHCP Client and DHCP relay
NAT	Support the static or dynamic NAT address translation function
Safety Feature	IEEE 802.1x port certification, PKI certification

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	Port Security (Port Security) function Hardware support IP ACL ACL ACL, MAC, Vlan Hardware support port based user IP+MAC+Vlan ID+ user account and a variety of factors combining and binding Support IP Source Guard Support WEB interface user authentication Remote RADIUS, TACACS+ certification User grading management and password protection Net shield technology Safety control technology Policy control list
Quality of Service	IEEE 802.1Qau congestion mechanism Each port 8 transmitting queues mapping 802.1p 8 priority WRED, WFQ, SP and FIFO queue scheduling algorithm Best-Effort Service Differentiated Service Strict Priority Weighted Round Robin First come first served TOS to mark RTS
Network Management	SNMP v1/v2/v3 RMON (1,2,3,9 group) Telnet WEB interface Support clustering management Support SSH Support PDP (compatible with Cisco CDP.) Support the fan, temperature, system log and hierarchical alarm
Physical characteristics	
Dimension	442mm * 285mm* 44mm
Package Size	50.5CM*10.5CM*39.5CM, Gross Weight : 5.0KG, Net Weight :4.0KG
Characteristic of Power	AC 110-240V adaptive, 47-63Hz, 1A/230V, RPS power hot backup
Power	Max. 80W
Indicator	Power indicator, system indicator, connecting / transmitting indicator
Environment Humidity / Temperature	0-50 °C operation, -40-70 °C preservation, 0-90% no condensation

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★ Certification

Certification	ROHS Certification
	<p>European Community (CE) Electromagnetic Compatibility Directive : This equipment has been tested and found to comply with the protection requirements of European Emission Standard EN55022/EN60555-2 and the Generic European Immunity Standard EN50082-1.</p> <p>EMC:</p> <p>EN55022(1988)/CISPR-22(1985), class A EN60555-2(1995), class A EN60555-3</p> <p>IEC1000-4-2(1995), 4K V CD, 8KV, AD</p> <p>IEC1000-4-3(1995), 3V/m</p> <p>IEC1000-4-4(1995), 1KV – (power line), 0.5KV – (signal line)</p>
	<p>Federal Communications Commission (FCC) statement: This equipment has been tested and found to comply with the limits for a class A computing device pursuant to Subpart J of part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment.</p>