Gigabit Ethernet Switches

ITM-5100-28HT-SI 10Gigabit Ethernet Switch

◆ Product overview

10Gigabit Ethernet Switch **ITM-5714-28TC** is standard 2-layer non-blocking switch. Provide **24 10/100/1000M RJ45 ports, 410GE SFP+ ports**, Based on high-performance ASIC chip technology, the modular structure design, which have a capability of multilayer switching and wire-speed routing forwarding. Can be deployed in the metropolitan area network, and provides a few last 1 km technology to gather and core data exchange. Very suitable for the aggregation application of large-scale network and the core application of medium and small-sized network.

1 . High performance

(1) With **128G B**ackplane bandwidth

(2) Hardware routing, wire-speed 3rd layer switching packet forwarding rate of **95.232Mpps**

(3) Can be deployed in the core of metropolitan area network , and provides several final 1 km Technology

2 . Safety

(1) Provide DOS, distributed denial of service, deception and virus defense

(2) Support IEEE802.1x, provide port-based user authentication, network shield, safety control, and strategy control technology

(3) Restrict maximum number of connected hosts port, with multi-channel Ethernet interface binding, increasing bandwidth and system redundancy

(4) Powerful ACL, support for L2-L4 layer data filtering

(5) Support QinQ function

(6) Strategy control list, flow regulation

3 . Convenient use and maintenance

(1)Use clustering technology, support for more than one device stack, with a unified IP Address to carry on centralized management and address resources savings

(2) All kinds of management method through Web, SNMP and so on

(3) Support XModem protocol, can be used to upgrade software and BootRom by TFTP/ZMODEM

(4) Support DHCP server and relay functions, dynamic allocation of IP address

(5) Support SFP+, but also 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) Automatic detecting and broadcast storm restraining, support for IGMP message detection, effectively limit the spread of broadcast message.

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

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(3)Support Ethernet interface with 1M as the rate limiting step

(4) Advanced buffer management, support 802.1p protocol, 8 transmit queues per port mapping 802.1p 8 priority

(5) Support IP multicast and QoS

◆　Product specification

The product model	**ITM-5714-28TC** 10Gigabit Ethernet Switch
Basic characteristics	
Fixed port	**24 10/100/1000M RJ45 Electrical ports, 4 10G SFP+ ports**
Backplane bandwidth	128Gbps
Packet forwarding rate	95.232Mpps
Processor	RISC 400MHz
Chip	**BCM**
Layer	**L2 / L3**(Available)
Flash memory capacity	8MB
The memory capacity	128MB
Address table	16K
Product characteristics	
Spanning tree	Support STP, RSTP, MSTP
VLAN	Support port-based VLAN Support 802.1Q labeled VLAN Support for Private Vlan
Flow control	Based on a standard IEEE 802.3x flow control Using IEEE 802.1Qbb priority flow control
Broadcast control	Restraining broadcast storm, stop sending so long as reaching a critical point
Multicast control	**IGMP Snooping** multicast message automatic monitoring
Port binding	Each group of a maximum of 8, while support 32group LACP dynamic or static polymerization
Port mirroring	Support based on flow classification mirroring and port mirroring
Characteristics of DHCP	**DHCP Snooping**
Safety characteristics	Port Security (Port Security) function Hardware support for IP ACL, MAC ACL, Vlan ACL Hardware support for port based user IP+MAC+Vlan ID+ user account a variety of factors combined to bind Support IP Source Guard Support WEB interface user authentication User classification management and password protection Safety control technology Policy control list
Quality of service	IEEE 802.1Qau congestion mechanism Each port 8 send queue mapping 802.1p 8 priority DRR, WRR, SP and FIFO queue scheduling algorithm Best-Effort Service Differentiated Service

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	Strict Priority Weighted Round Robin First come first served TOS to mark RTS
Network management	SNMP v1/v2 Telnet WEB interface Support the fan, temperature, system log, hierarchical alarm

Physical characteristics

Appearance size	440x230x44mm	442mm × 285mm × 44mm
Power characteristic	AC 110-240V adaptive, 47-63Hz, 1A/230V, RPS power hot backup	
Power	80W	
Indicator lamp	Power indicator, indication of system, connecting / transceiver instructions	
Environment humidity / temperature	0-50 ℃ operation,-40-70 ℃ preservation,0-90% no condensation	

	ROHS authentication
Authentication	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. EMC: EN55022(1988)/CISPR-22(1985)，class A EN60555-2(1995),class A EN60555-3 IEC1000-4-2(1995),4K V CD, 8KV, AD IEC1000-4-3(1995),3V/m IEC1000-4-4(1995),1KV – (power line), 0.5KV – (signal line)
	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.