

# ITM-6600Series 10Gigabit Data Center Switches



## ◆ Product overview

10Gigabit Data Center Switch ITM6600-32HC is a standard three-layer Non blocking switches. 650Gbps switch capacity, industry the highest performance (1U TOR); With **960Mpps** forwarding performance, L2 / L2+ forward full speed; Extensible 32 biggest 10G interface, the highest density (1U TOR), meet the demand of high-density 10G server access. Extensible 2 high-performance QSFP+ interface, **40G QSFP+** interface allows for 4 to 10GE interface; Also can be extended 8 10G electric ports; Provide flexible network capacity; Ensure the stable operation of the network and link load balancing. ITM6600-32HC adopts modular design, provides **24 10GE SFP+ ports, 4 1000M combo ports, 1 Console port:1 OOB management**. To gather and core data exchange to provide enough bandwidth, the user can according to demand to choose the appropriate 10G port in a flexible response network requirements. With high bandwidth and low latency, pipe network. 6600-32HC switches located in density of the next generation of data center and cloud computing network access, can also be used for large Internet cafes, the core of enterprise network, metropolitan area network, or gathering.

## ◆ Product Feature

### ★ ★ High density 10G access, performance is remarkable

- (1) With 650Gbps backplane bandwidth, the industry the highest performance (1U TOR);
- (2) The layer 3 switching hardware routing, wire speed packet rate reached 483.6Mpps, L2 / L3 forward full speed;
- (3) Extensible 32 biggest 10GE interface, the highest density (1U TOR), meet the demand of high-density 10G server access.
- (4) Extensible 2 high-performance 40G QSFP+ interface, 40G QSFP+ interface allows for 4 to 10GE interface; Provide flexible network capacity;
- (5) Extensible 8 10G electric ports, provide flexible network capacity;
- (6) Has 4 1G photoelectric reuse ports, industry the only high density 10G switches provide more 1G port access.

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## ★ ★ Wind direction flexible choice, green and energy saving

- (1) Flexible/before and after the first air duct design;
- (2) Adopt strict before and after air duct design and support the hot and cold air duct is completely isolated, improve heat efficiency, satisfies the requirement of data center computer room design;
- (3) Through selecting fan and power supply module, flexible support before, during and after the first air duct;
- (4) Support power supply and fan redundancy configuration, ensure continuous business operation;
- (5) Innovative energy-saving technology: using the latest energy-saving chip, fan speed control scheme of intelligent, supports real-time detection power consumption, reduce operational cost for the customer, create green data center.

## ★ ★ Convenient in operation and maintenance

- (1) Management support with Web,SNMP and telnet;
- (2) Support XModem protocol,use TFTP/ZMODEM to software upgrading and BootRom upgrading;
- (3) support SFP+, also backwards compatible XFP;
- (4) To provide redundant power supplies, quick failover and fast connection, greatly increase the system reliability.

## ◆ Product's Technical Parameters

Product Model	ITM6600-32HC
Basic Feature	
Fixed port	24 10G optical ports, 4 1G combo ports
Extensible port	Extensible 8 10G optical ports or 2 40G QSFP+ ports
Console port	1
OOB management port	1
Backplane bandwidth	650Gbps
Packet forwarding rate	483.6Mpps
Jumbo frames	9216 bytes
Chip	BCM
Layer	L2 / L3(Available)
Transfer mode	Support store-forward mode and cut-through mode
IPv4/IPv6 route	6k/8k
MAC address table	128K
Packet Buffer	9MB
VLAN ID	4K
Flash	32MB
Memory	1GB DDR3 SDRAM
CPU	PPC Dual-core 800MHz
Soft Specification	
Security feature	IP+MAC+PORT+VLAN binding ARP inspection DOS prevention Port protection

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	IP source port protection
<b>VLAN</b>	Port based VLAN 802.1Q VLAN IP based VLAN MAC based VLAN
<b>MAC address table</b>	static MAC address table dynamic MAC address table
<b>Storm Control</b>	Broadcast suppression Multicast suppression DLF suppression Limiting rate
<b>Traffic Control</b>	Half-duplex control based on the back pressure type Full-duplex control based on the PAUSE frame
<b>Port Mirror</b>	Support port mirroring
<b>Port management</b>	General setting Port counting Configuring port Port trunking Port-isolation
<b>QoS</b>	IEEE 802.1Q Congestion mechanism Each port has 8 send queue mapping to 8 802.1p priority
<b>IP services</b>	Ping detection DHCP Snooping
<b>Spanning Tree Protocol</b>	MSTP(802.1s)、STP、RSTP
<b>Multicast management</b>	IGMP Snooping frame
<b>System management</b>	Support SNMP v1/v2 Support Console Support TELNET Support WEB
<b>Remote Upgrade</b>	Support version upgrading via web Support version upgrading via local
<b>Physical Characteristics</b>	
<b>External Dimension</b>	438.48mm*473mm*43.4mm
<b>Power Supply Features</b>	AC: 90V~290V                      DC: -38.4V~-72V
<b>Power</b>	≤230W
<b>Indicator light</b>	Power indicator, system, connection/sending and receiving instructions
<b>Environment temperature/humidity</b>	operating temperature: 0°C~50°C (0m~1800m) storage temperature: -40°C~+70°C, relative humidity: 5%RH~95%RH, Non-condensing