شرکت **تحقیق** و **توسعه ارتباط**

(سهامی خاص)

TETA

TETA-3000
L3 SERIES

- ✓ Supports Maximum 48GE Ports
- ✓ 8 10GE SFP+ Uplink Ports
- ✓ Advanced Hardware Architecture and Industry-leading Port Density
- ✓ Carrier-Level High Reliability Full Layer-3 Functions
- ✓ Versatile IPv6 Solution
- ✓ Complete Security Mechanism

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Product Characteristics

Carrier-level High Reliability

Based on HPS (Hitless Protection System), the key components of TETA-3000 Series, such as the power module, support dual back-up, hot-swap, seamless switching in the downtime without manual intervention.

STP/RSTP/MSTP, VRRP protocol, Ethernet ring protection, dual master-slave up-link protection and LACP link aggregation.

ISSU (In-Service Software Upgrade).

BFD mechanism.
Ethernet OAM mechanism, 802.3ah, 802.1ag and ITU-Y.1731;
High reliability (99.999%): The MTTR of the TETA-3000 Series is 50ms, satisfying the requirement for reliable delivery of carrier-level service.

Varied Service Features

TETA-3000 Series supports layer2 and layer3 multi-cast routing protocol, which enable the device can access to IPTV, HD video surveillance and HD video conference.

Layer3 routing protocol and super-large routing table capacity, which enables the device be available in large campus networks, enterprise networks and industry networks.

Layer2 and layer3 MPLS VPN.

Innovative Energy-saving Design

Intelligent power management: The power system of TETA-3000 Series supports real-time monitoring the device and the slow-start. It is also power-saving.

Intelligent fan management system: The fan system of TETA-3000 Series supports automatic speed regulation, which efficiently slow the fan speed and mitigate the noise;

Comply with the international standard IEEE 802.3az.

Versatile IPv6 Solution

TETA-3000 Series support the IPv6 protocol suite, IPv6 neighbor discovery, ICMPv6, path MTU discovery, DHCPv6, etc.

Ping, Trace route, Telnet, SSH, ACL based on Ipv6.

MLD, MLD Snooping, IPv6 static routing, RIPng, OSPFv3 and BGP4+, etc;.

Supports IPv6 tunnel: manual tunnel, automatic tunnel, GRE tunnel, 6to4 tunnel, ISATAP.

Security+

Equipment-level security: The advanced hardware infrastructure design realizes the level-based packet schedule and packet protection, prevents DoS-/TCP- related SYN Flood, UDP Flood, Broadcast Storm or large traffic attacks, and supports level-based command line protection, endowing different levels of users with different management permissions.

Perfect security authentication mechanisms: IEEE 802.1x, Radius and Tacacs+.

Storm/multicast/unicast limits, ensuring normal running conditions of the equipment when deployed in harsh network conditions.

Perfect ring detection mechanisms, ensuring long-term network performance stability.

Port isolation within the same VLAN, DHCP-Snooping and IP + MAC + Port binding.

Carrier-Level Aggregation Layer-3 Ethernet Switch Innovative VSS (Virtual Switch System):

TETA-3000 Series virtualize multiple physical devices into one. The performance, reliability and management capabilities of the virtual system combine to outperform that of individual physical devices.
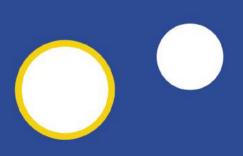
Improved Performance:
VSS makes full use of each link in the physical device cluster, which avoids STP blocking on links and protects the original link to the maximum.

High Reliability:
Based on the advanced distribution mechanism and efficient cross-physical link aggregation function, the logic control plane, service control plane and service data plane are separated. Thus, TETA-3000 Series supports continuous layer3 routing forwarding, avoiding service interruption as a result of a single point of failure.

Easy Management:
VSS realizes single IP management, greatly improving the networking efficiency and lowering the operating costs.

Features

VLAN
- 4K Active VLAN,
- QinQ & Selective QinQ,
- GVRP,
- Voice-VLAN

Spanning Tree
- 802.1D (STP),
- 802.1W (RSTP) and 802.1S (MSTP)BPDU guard,
- root guard and loopback guard

Multicast
- PIM-SM, PIM-DM, IGMP v1/v2/v3,
- IGMP Snooping, IGMP Fast Leave,
- MVR, IGMP filter

IPv4
- Static routing, RIP v1/v2, OSPF, BGP, PBR, ECMP
- BFD for OSPF, BGP

IPv6
- ICMPv6, DHCPv6, ACLv6 and IPv6 Telnet
- IPv6 neighbor discovery, Path MTU Discovery
- MLD V1/V2, MLD snooping
- IPv6 Static Routing, RIPng, OSPFv3, BGP4+
- Manual tunnel, ISATAP tunnel, 6 to 4 tunnel

MPLS
- LDP protocol, Multi-VRF,
- MPLS L2 VPN

Qos
- CAR, HQoS, MAC/IP/TCP/UDP/VLAN/COS/DSCP/TOS based QoS, 802.1P/ DSCP priority re-labeling, SP, WRR, and "SP+WRR", Tail-Drop, WRED, flow monitoring and traffic shaping

Reliability
- Static/LACP link aggregation (up to 16 groups / 8 ports each group) ,Interface backup
- BVSS virtual-stacking
- EAPS and ERPS
- URPF, LLDP
- ISSU
- VRRP
- 1+1 power backup

Management
- Console, Telnet, SSH v1/2, HTTP, HTTPS
- SNMP v1/v2/v3, RMON
- TFTP, FTP, SFTP
- NTP, SPAN, RSPAN
- sFlow

Environment
- Operating temperature/humidity: 0℃ -50℃ ,10%-90% non-condensing
- Storage temperature/humidity:-20℃ -70℃ , 5%-95% non-condensing

Security
- Port isolation, Port security, and "IP+ MAC+port" binding, MAC stickyDHCP Snooping and option 82, DAI & IP source guard, PPPoE+
- IEEE 802.1x, Radius and BD Tacacs+
- L2/L3/L4 ACL flow identification and filtrationAnti-attack from DDoS, TCP's SYN Flood, UDP Flood, etc.Broadcast/ multicast/unknowr unicast storm-control
- MD5, SHA-256, RSA-1024, AES256, etc.

Accessories
- Power cord, rackmount kits, console Cable

TETA-3000-32T8X
- 32 GE TX ports
- 8 10GE SFP+ ports

TETA-3000-8T24S8X
- 24 GE SFP ports 8 GE TX ports
- 8 10GE/GE SFP+ ports

TETA-3000-48T8X
- 48 GE TX ports
- 8 10GE/GE SFP+ ports

TETA-3000-44S4C8X
- 44 GE SFP ports
- 4 GE TX/SFP combo ports
- 8 10GE SFP+ ports

TETA-3000-24T24S8X
- 24 100/1000M SFP ports
- 24 GE TX ports
- 8 10GE/GE SFP+ ports

TETA-3000-48P-8X
- 48 GE POE ports
- 8 10GE/GE SFP+ ports

Specifications

Item TETA-3000-		32T8X	8T24S8X	48T8X	44S4C8X	24T24S8X	48P8X
Chassis	Dimensions (WxDxH mm)	440x350x44	440x350x44	440x350x44	440x350x44	440x350x44	440x350x44
	Weight (kg)(empty)	5.3	5.5	6	6	6.2	5.5
Package	Dimensions (WxDxH mm)	576x448x94	576x448x94	576x448x94	576x448x94	576x448x94	576x448x94
	Weight (kg)(empty)	6.5	6.7	7.2	7.6	7.4	6.7
Power consumption	no-load	< 32W	< 32W	< 33W	< 38W	< 53W	< 38W
	full-load	58W	64W		69W	78W	1520W
Power supply (hot-swap)	AC: 100V-240V 50Hz±10%	75W	75W	75W	150W	150W	/
Interface		32 GE TX ports 8 10GE/GE SFP+ ports	24 GE SFP ports 8 GE TX ports 8 10GE/GE SFP+ ports	48 GE TX ports 8 10GE/GE SFP+ ports	44 GE SFP ports 4 GE TX/SFP combo ports 8 10GE SFP+ ports	24 100/1000M SFP ports 24 GE TX ports 8 10GE/GE SFP+ ports	48 GE POE ports 8 10GE/GE SFP+ ports
Console		1 Mini USB port	1 Mini USB port	1 Mini USB port	1 Mini USB port	1 Mini USB port	1 Mini USB port
Backplane		176 Gbps	176 Gbps	176 Gbps	176 Gbps	176 Gbps	176 Gbps
Forwarding rate		132 Mpps	132 Mpps	132 Mpps	132 Mpps	132 Mpps	132 Mpps

Item TETA-3000-		32T8X	8T24S8X	48T8X	44S4C8X	24T24S8X	48P8X
Total output BTU (1000BTU/H=293W)		255.97	255.97	255.97	511.94	511.94	750.85
Fan number		2	2	2	3	3	3
Noise@25°C(dBA)		45	45	45	45	45	45
MTBF(H)		>100,000	>100,000	>100,000	>100,000	>100,000	>100,000
Forwarding mode		Store-forward	Store-forward	Store-forward	Store-forward	Store-forward	Store-forward
Flash (MB)		32	32	32	32	32	32
DRAM (MB)		512	512	512	512	512	512
MAC		32K	32K	32K	32K	32K	32K
Buffer size(MB)		3	3	3	3	3	3
Jumbo frame		9K	9K	9K	9K	9K	9K
Routing table	IPv4	32K	32K	32K	32K	32K	32K
	IPv6	8K	8K	8K	8K	8K	8K
ARP table	IPv4	10K	10K	10K	10K	10K	10K
	IPv6	5K	5K	5K	5K	5K	5K
Total SVI		1K	1K	1K	1K	1K	1K