



TETA

شرکت تحقیق و توسعه ارتباط

(سهامی خاص)

TETA-2000 L2+, L3-lite Series

- ✓ Supports Maximum 48GE TX Ports
- ✓ 4,6 10GE SFP+ Uplink Ports
- ✓ Advanced Hardware Architecture and Industry-leading Port Density
- ✓ Carrier-Level High Reliability Layer-3 Routing Functions
- ✓ Versatile IPv6 Solution
- ✓ Complete Security Mechanism

Contact Us

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Features

VLAN

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

Spanning Tree

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

Multicast

- IGMP v1/v2/v3, IGMP Snooping, IGMP Fast Leave, MVR, IGMP filter

IP

- Static route, RIP, OSPF
- IPv4/v6 dual stacks

IPv6

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

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

Accessories

- Power cord, rackmount kits, console cable

Security

- Port isolation, Port security, and "IP+MAC+port" binding, MAC sticky DAI & IP source guard PPPoE+
- IEEE 802.1x, AAA, Radius and BDTacacs+
- L2/L3/L4 ACL flow identification and filtration
Anti-attack from DDoS, TCP's SYN Flood, UDP Flood, etc.
Broadcast/multicast/unknown unicast storm-control
- MD5, SHA-256, RSA-1024, AES256, etc.

DHCP

- DHCP server/relay/client
- DHCP snooping/option82

Reliability

- Static/LACP link aggregation, Interface backup
- EAPS and ERPS
- ISSU uninterrupted system upgrade
- BVSS, up to 16-units per stack
- VRRP
- UDLD

Management

- Console, Telnet, SSH v1/2, HTTP, HTTPS, SNMP v1/v2/v3, RMON
- TFTP, FTP, SFTP
- NTP
- ZTP
- SPAN, RSPAN
- Dying gasp*

Environment

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

Models

TETA-2000-24T4X



- 24 GE TX ports
- 4 10GE/GE SFP+ ports

TETA-2000-8T16S4X



- 16 GE SFP ports
- 8 GE SFP/TX combo ports
- 4 10GE/GE SFP+ ports

Product Characteristics

Telecoms-Level Ethernet Switch

Ethernet-ring protection protocol < 50ms
STP/RSTP/MSTP
Backup of active and standby up-links
LACP link aggregation.
802.3u, 802.3x, 802.3ad, 802.1d, 802.1p, 802.1q,
802.1w, 802.1ad.
Ethernet OAM.
Powerful ACL functions L2-L7: Physical port, VLAN,
MAC, IP.
L2 multicast : IGMP-Snooping, Fast-leave and Trans-
VLAN.

Industrial Ethernet Ring with Zero Delay and Zero Packet Loss

Industry-level EAPS and protection < 50ms.
High reliability, Zero packet loss.

Flexible Management and Maintenance

Console port, Telnet, SSH.
WEB management.
TFTP file upload/download management.
ISSU (In-Service Software Upgrade).
SNMP: equipment discovery, configuration management,
performance data statistics, analysis & trouble management

IPv6 Solutions

IPv6 protocol suite, IPv6 neighbor discovery, ICMPv6,
Path MTU discovery, etc.
IPv6: Ping, Traceroute, Telnet, SSH, ACL.

Carrier-Level QoS Policies

Priority retagging and complicated flow classification based on VLAN, MAC, source address, destination address, IP or priority.
Flexible bandwidth control policies:
port-/flow-based flow limit, ensuring the line speed forwarding of each port.
8 priority queues by each port.
Multiple queue schedule algorithms such as SP, WRR, or "P plus WRR"

Perfect Security Mechanisms

Equipment-level security:
Level-based packet schedule
Packet protection.
Prevents DoS-/TCP related SYN flood, UDP flood, broadcast storm or large traffic attacks
Level-based command line protection.
Authentication mechanisms: IEEE 802.1x, Radius and Tacacs+.
Storm/multicast/unicast limit.
Perfect ring detection mechanism.
Port isolation within the same VLAN,
DHCP-Snooping, and IP plus MAC plus Port binding

TETA-2000-48T6X



- 48 GE TX ports
- 6 10GE/GE SFP+ ports

TETA-2000-24P4X



- 24 GE POE ports
- 4 10GE/GE SFP+ ports

other models

- TETA-2000-L-20T4C4X
- TETA-2000-L-48T4X
- TETA-2000-L-8T24S4X
- TETA-2000-L-24P4X
- TETA-2000-L-48P4X.

Product Specifications

Item	TETA-2000-24T4X	TETA-2000-8T16S4X	TETA-2000-24P4X	TETA-2000-48T6X	
Interface	24 GE TX 4 10GE/GE SFP+	16 100/1000M SFP 8 GE SFP/TX combo 4 10GE/GE SFP+	24 GE POE 4 10GE/GE SFP+	48 GE TX 6 10GE/GE SFP+	
Console(RJ45)	1	1	1	1	
Backplane(Gbps)	128	128	128	216	
Forwarding rate(Mpps with 64 bytes)	96	96	96	162	
Chassis	Dimensions (WxDxH)(mm)	440x180x44	440x210x44	440x280x44	
	Weight(KG)(empty)	2.6	4	3	4.3
Package	Dimensions (WxDxH)(mm)	500x320x80	576x448x94	555x295x88	576x448x94
	Weight(KG)	3.9	5.2	4.1	5.5
Power consumption	no-load	<22W	<18W	<25W	<25W
	full-load	35W	<38W	<408W	<40W
Power supply AC: 100V-240V, 50-60Hz	45W	45W	410W	45W	
POE power budget	/	/	370W	/	
Total output BTU (1000BTU/H=293W)	153.58	153.58	1392.49	153.58	
Fan number	/	2	2	2	
Noise@25°C(dBA)	0	45	37.5	45	
MTBF(H)	> 50,000	> 50,000	> 50,000	> 50,000	
Forwarding mode	Store-forward	Store-forward	Store-forward	Store-forward	
Flash (MB)	32	32	32	32	
DRAM (MB)	256	256	256	256	
MAC	16K	16K	16K	16K	
Buffer size(MB)	1.5	1.5	1.5	1.5	
Interface vlan	64	64	64	64	
Routing table	2040	2040	2040	2040	
Jumbo frame	9K	9K	9K	9K	

Innovative Virtual Cluster Switching Technique

Innovative VSS (Virtual Switch System): TETA-2000 L3-lite Series virtualizes multiple physical devices into one. The performance, reliability and management of the virtual system are superior to the physical ones. **Improved Performance:** VSS makes full use of each link in the physical devices, which avoids STP blocking the link and protects the original link to the maximum extent.

High Reliability: Based on the advanced distribution mechanism and efficient cross-physical link aggregation link function, the logic control plane, service control plane and service data plane are separated. Thus, TETA-2000 L3-lite Series can support continuous layer-2 and layer-3 routing forwarding, avoiding service interruption as a result of a single point of failure.

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