OVERVIEW

Voltan VTA25-P Series is a new-generation intelligent PoE access switch designed for carrier's IP MAN and enterprise networks. Based on the new-generation high-performance hardware and VROS platform, it supports functions such as ACL, QinQ and QoS. Its simple management mode and flexible installation can meet the requirement of any complicated scenarios.

CHARACTERISTICS

Carrier-Level Ethernet Access Switch

VTA25-P Series supports the carrier-level Ethernet ring protection protocol with less than 50ms recovery time , STP/RSTP/MSTP , backup uplink ports, and LACP link aggregation to cater to the requirements of high reliability of carriers; VTA25-P Series has powerful ACL functions to access and control L2-L7 data based on physical port, providing carriers flexible and various policy control methods;
VTA25-P Series supports In-Service Software Upgrade (ISSU) to ensure the unremitting data forwarding during system upgrade;
VTA25-P Series supports various L2 multicast functions such as IGMP-snooping, fast-leave and MVR to fully meet the operation requirements of carrier's IPTV.

Intelligent PoE+

VTA25-P Series supports IEEE 802.3AF/AT PoE standard, and power mapping scales up to a maximum of 370W of PoE+ power;
VTA25-P Series supports PoE non-stop power supply. The PoE+ power is maintained during a switch reload;
VTA25-P Series supports manual and dynamic PoE power allocation;
VTA25-P Series supports up to 2KV thunder-proof of the PoE port and power supply;

Enhanced QoS

VTA25-P Series supports priority retagging and complicated flow classification based on VLAN, MAC, source address, destination address, IP or priority, better streamlining carrier's services;
VTA25-P Series provides flexible bandwidth control policies, supporting port-/flow-based flow limit, ensuring the line speed forwarding of each port;
VTA25-P Series supports multiple queue schedule algorithms such as SP, WRR and "SP + WRR";

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+.

VTA25-P Series supports storm/multicast/unicast limit, ensuring the normal running of equipment in harsh network conditions.

VTA25-P Series supports perfect ring detection

mechanism, ensuring the long-term stable running of network.

VTA25-P Series supports port isolation within the same VLAN, DHCP-Snooping, and IP + MAC + Port binding.

Easy Management and Maintenance

VTA25-P Series supports many management modes such as the CLI, Telnet, SSH, SSL and SNMP;

VTA25-P Series supports the WEB management mode, which is easy and efficient for installing and debugging the device;
VTA25-P Series supports FTP,TFTP and SFTP;
VTA25-P Series supports ISSU (In-Service Software Upgrade);
VTA25-P Series supports SNMP and VOLTAN NMS smart network management platform. The combination realizes automatic equipment discovery, network topology management , equipment configuration management, performance data statistics and analysis and trouble management;
VTA25-P Series supports Zero Touch Provisioning(ZTP) function to minimize manual operator intervention and helps reduce customers' initial deployment costs.

Voltan Technology Limited
48 Ravenor Park Road, Greenford, UB6 9QY, London, United Kingdom.

CE   ISO   RoHS

MODEL

VTA25-P

· 24 GE PoE ports

· 4 GE TX/SFP combo ports

SPECIFICATIONS

Interface		24 GE PoE ports, 4 GE TX/SFP combo ports
Console		1 RJ45 port, 1 RST button
Backplane		56 Gbps
Forwarding rate		42 Mpps
Chassis	Dimensions (WxDxH)(mm)	440x210x44
	Weight (KG)(empty)	3
Package	Dimensions (WxDxH)(mm)	555x295x88
Power consumption	Weight(KG)	4.1
	no-load	<17W
	full-load	393.5W
Power supply	AC: 100V-240V, 50Hz±10%	400W
POE power budget		370 W
Total output BTU (1000BTU/H=293W)		1365.19
Fan number		2
Noise@25°C(dBA)		37.5
MTBF(H)		>50,000
Forwarding mode		Store-forward
Flash (MB)		16
DRAM (MB)		128
MAC		8K
Buffer size(Mb)		4.1
Jumbo frame		9K
Total SVI		10

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 v1/2/3
· IGMP Snooping
· IGMP Fast Leave
· IGMP Filter
· MVR

IP

· Static route
· RIP, OSPF
· 512 routing table
· IPv4/v6 dual stack
· DHCP Server/Client/Relay

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

Security

· Port isolation, Port security, and
  "IP+MAC+port" binding, MAC
   sticky DHCP Snooping and option
   82, DAI& IP source guard, PPPoE+,
· IEEE 802.1x, 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.

Reliability

· Static/LACP link aggregation,
  Interface backup
· EAPS and ERPS
· ISSU

Management

· Console, Telnet,SSH v1/2,HTTP,
  HTTPS SNMP v1/v2/v3, RMON
· TFTP, FTP, SFTP
· NTP
· ZTP(Zero Touch Provisioning)
· SPAN, RSPAN

Accessories

· Power cord, rackmount kits,
  console cable, anti-slipping pad

Environment

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

Certification

· CE, FCC,ROHS

ORDERING INFORMATION

Part.No	Description
VTA25-P	Ethernet PoE switch with 28 GE ports (1 console port, 24 GE PoE ports, 4 GE TX/SFP combo ports, 1 standard AC220V power supply, 400W, thecooling fan, 1U, standard 19-inch rack-mounted installation)

Optical Modules 100M	
VTFSFP-LX-15	100M SFP single-mode (15Km, 1310nm, LC, DDM）
VTFSFP-LX-SM1310-20	100M SFP single-mode, single-chip and two-way (20Km, TX1310/RX1550, LC, DDM)
VTFSFP-LX-SM1550-20	100M SFP single-mode, single-chip and two-way (20Km, TX1550/RX1310, LC, DDM)
GE Optical Modules	
VTGSFP-TX-B	GE SFP-to-RJ45 module
VTGSFP-SX-D	GE SFP multi-mode (500m, 850nm, LC, DDM)
VTGSFP-LX-10-D	GE SFP single-mode (10Km, 1310nm, LC, DDM)
VTGSFP-LX-20-D	GE SFP single-mode (20Km, 1310nm, LC, DDM)
VTGSFP-LX-40-D	GE SFP single-mode (40Km, 1310nm, LC, DDM)
VTGSFP-ZX-80-D	GE SFP single-mode (80Km, 1550nm, LC, DDM)
VTGSFP-ZX-120-D	Gigabit SFP single-mode (120Km, 1550nm, LC, DDM)