ANDA TELECOM

Turning Copper into Gold

AT-S1620POE

Supports Maximum 24 GE PoE Ports and 4 GE SFP Uplink Ports

Advanced Hardware Architecture and Industry-leading Port Density

Carrier-Level High Reliability Layer-3 Routing Functions

Varied Service Characteristics Versatile IPv6 Solution Complete Security Mechanism

Product Overview

ANDA TELECOM AT-S1620PoE 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 platform, it supports functions such as ACL, QinQ and QoS. Its simple management mode and flexible installation can meet the requirement of any complicatedscenarios;

Product Characteristics

Carrier-Level Ethernet Access Switch

AT-S1620PoE 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;

AT-S1620PoE has powerful ACL functions toaccess and control L2-L7 data based on physical port, providing carriers flexible and various policy control methods;

AT-S1620PoE supports In-Service Software Upgrade (ISSU) to ensure the unremitting data forwarding during system upgrade;

AT-S1620PoE supports various L2 multicast functions such as IGMP-snooping, fast-leave and MVR to fully meet the operation requirements of carrier's IPTV.

Product Characteristics

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Intelligent PoE+

AT-S1620PoE supports IEEE 802.3AF/AT PoE standard, and power mapping scales up to a maximum of 370W of PoE+ power;

AT-S1620PoE supports PoE non-stop power supply. The PoE+ power is maintained during a switch reload;

AT-S1620PoE supports manual and dynamic PoE power allocation;

AT-S1620PoE supports up to 2KV thunder-proof of the PoE port and power supply;

Enhanced QoS

AT-S1620PoE supports priority retagging and complicated flow classification based on VLAN, MAC, source address, destination address, IP or priority, better streamlining carrier's services;

AT-S1620PoE provides flexible bandwidth control policies, supporting port-/flow-based flowlimit, ensuring the line speed forwarding of eachport;

AT-S1620PoE 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

AT-S1620PoE supports storm/multicast/unicast limit, ensuring the normal running of equipment in harsh network conditions.

AT-S1620PoE supports perfect ring detection mechanism, ensuring the long-term stable running of network.

AT-S1620PoE supports port isolation within the same VLAN, DHCP-Snooping, and IP + MAC + Port binding.

Easy Management and Maintenance

AT-S1620PoE supports many management modes such as the CLI, Telnet, SSH, SSL and SNMP;

AT-S1620PoE supports the WEB management mode, which is easy and efficient for installing and debugging the device;

AT-S1620PoE supports FTP, TFTP and SFTP;

AT-S1620PoE supports ISSU (In-Service Software Upgrade);

AT-S1620PoE supports SNMP and ANDA TELECOM smart network management platform. The combination realizes automatic equipment discovery, network topology management, equipment configuration management, performance data statistics and analysis and trouble management;

AT-S1620PoE supports Zero Touch Provisioning(ZTP) function to minimize manual operator intervention and helps reduce customers' initial deployment costs.

AT-S1620PoE

-16 GE PoE Ports

-2 GE TX/SFP Combo Ports

-2 100/1000M SFP Ports

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Product Specifications

Item		AT-S1620PoE
Interface		16 GE PoE ports, 2 GE TX/SFP combo ports 2 100/1000M SFP ports
Console		1 RJ45 port, 1 RST button
Backplane		40 Gbps
Forwarding rate		30 Mpps
Chassis	Dimensions (WxDxH)(mm)	440x210x44
	Weight(KG)(empty)	2.8
Package	Dimensions (WxDxH)(mm)	555x295x88
Power consumption	Weight(KG)	3.9
	no-load	<15W
	full-load	261.4W
Power supply	AC: 100V-240V, 50Hz±10%	265W
POE power budget		250W
Total output BTU (1000BTU/H=293W)		892. 15
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, SPWRR 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,
- 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