

ANDA TELECOM

Turning Copper in to Gold - Since May 2005



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Product Overview:

The ATS-2900 L3-lite Series represents the next generation in aggregation 10GE switches designed for metropolitan area networks, government and enterprise networks, Internet cafés, and disk-less working environments. Built on a foundation of high-performance hardware and proprietary intellectual property rights, this series boasts robust features.

With capabilities like powerful Access Control Lists (ACL), flexible Qin Q, 1:1 or N:1 VLAN switching, Ethernet OAM, carrier-level Quality of Service (QoS), and industry-grade 10GE Ether-ring, the switch ensures seamless application across diverse and complex sites. Additionally, it supports layer-3 routing protocols for enhanced functionality.

Product Characteristics:

• Innovative Virtual Cluster Switching Technique

ATS-2900 L3-lite Series consolidates multiple physical devices into one virtual system, offering superior performance, reliability, and management compared to individual physical units.

1. Improved Performance: Optimizes the use of each link in physical devices, preventing STP blocking and maximizing link protection.

2. High Reliability: Utilizes advanced distribution mechanisms and efficient cross-physical link aggregation, separating logic control, service control, and service data planes. This ensures continuous layer-3 routing forwarding, averting service interruptions due to a single point of failure

3. Easy Management: Implements single IP management, significantly enhancing networking efficiency and reducing operating costs.

Industrial Ethernet Ring with Seamless Performance and Zero Packet Loss.

This cutting edge system boasts an Industrial Ethernet Ring with unparalleled performance, featuring zero delay and zero packet loss. It seamlessly supports industry-level Ethernet Automatic Protection Switching (EAPS), ensuring a protection shift time of less than 50ms. Its remarkable reliability, demonstrated through years of application in Grid, rail transportation, and defense systems, is highlighted by its zero packet loss.

Telecom-Grade Ethernet Switch -

Our Telecom-Level Ethernet Switch is designed to meet the stringent demands of the telecommunications industry. It supports the telecom-level Ethernet ring protection protocol with an impressive protection shift time of less than 50ms. Additionally, it incorporates STP/RSTP/MSTP, active and standby uplink backups, and LACP link aggregation to fulfill carrier requirements for high reliability.

Compliance with Ethernet Standards

The system adheres to Ethernet standards 802.3, 8023x, 8023ad, 8021d, 802.1p, 802.1q, 802.1w, and 802.1ad.

Ethernet Access Switch - 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,
- IPv4/v6 dual stack

Accessories

- Power cord, rackmount kits, console cable

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

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 uninterrupted system upgrade
- VSS, up to 16-units per stack
- VRRP
- UDLD

Certification

- CE, FCC, ROHS, TEC

DHCP

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

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

Ethernet Access Switch - Technical Specifications

Interface	24 Gigabit Interface 4 10GE/GE Interface
Console	1 RJ45 port
Backplane	128 Gbps
Forwarding rate	96 Mpps
Chassis Dimensions	440x210x44
Chassis Weight(KG)(empty)	2.6
Package Dimensions (WxDxH)(mm)	500x320x80
Package Weight(KG)	3.9
Power consumption No-load	< 22W
Power consumption Full-load	35W
Power supply AC: 100V-240V 50Hz±10%	45W
Total output BTU (1000BTU/H=293W)	153.58
Fan number	No
Noise@25°C(dBA)	0
MTBF(H)	>200,000
Forwarding mode	Store-forward
Flash (MB)	16
DRAM (MB)	256
MAC	16K
Buffer size(Mb)	1.5
Jumbo frame	9K
Interface vlan	64