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The AVSV-1TLA-000xA-xx is a 10G uplink managed Ethernet fiber switch independently developed by Raycore. It has 8*10/100/1000Base-T RJ45 ports and 24*100/1000Base-X SFP ports and 4*1/10G SFP+ fiber slot ports. Each port can support wire-speed forwarding.

The AVSV-1TLA-000xA-xx has L2+ full network management function, supports IPV4/IPV6 management, static route full line rate forwarding, complete security protection mechanism, complete ACL/QoS policy and rich VLAN functions, and is easy to manage and maintain. Supports multiple network redundancy protocols STP/RSTP/MSTP (<50ms) and (ITU-T G.8032) ERPS(<20ms) to improve link backup and network reliability. When one-way network fails, communication can be quickly restored to ensure important Uninterrupted communication for applications. According to the actual application requirements, you can configure multiple application services such as port traffic control, VLAN division, and SNMP through the Web network management mode. It satisfies high-density network application environment and is suitable for medium, large-scale scenes such as hotel, campus, park, shopping mall, scenic spot, hospital, bank to form an economical, efficient and reliable communication network.

Features

- Gigabit multi fiber port access, 10G SFP+ fiber port uplink
 - All series supports "Gigabit Ethernet port and gigabit SFP fiber slot port and 1/10G SFP+ fiber slot port "combination, which enables users to flexibly build networking to meet the needs of various scenarios.
 - > Support non-blocking wire-speed forwarding.
 - > Support full-duplex based on IEEE802.3x and half-duplex based on backpressure.



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- Strong business processing capability
 - ▶ IEEE802.1Q VLAN, flexible VLAN division, Voice VLAN and QinQ configuration.
 - QoS, Priority mode based on 802.1P, Port & DSCP, queue scheduling algorithm including Equ, SP, WRR & SP+WRR.
 - > ALC, filter data packet through configuring matching rules, processing operation & time permission, and provide flexible and safe access control.
 - ➤ IGMP V1/V2 and IGMP Snooping.
 - ➤ ERPS/STP/RSTP/MSTP.
 - > Static and dynamic aggregation.
- Security
 - ➤ 802.1X authentication.
 - > Port isolation, Storm control.
 - > IP-MAC-VLAN-Port binding.
- Stable and reliable
 - CE, FCC, RoHS.
 - Low power consumption, galvanized steel casing, The fan active cooling.
 - > Self-developed power supply, high redundancy design, providing a long term and stable power output.
 - The user-friendly panel, it can show the device status through the LED indicator of PWR, SYS, Link/A.
- Easy operation and maintenance management
 - Web management, CLI command line (Console, Telnet), SNMP (V1/V2/V3).
 - ► HTTPS, SSLV3, and SSHV1/V2.
 - > RMON, system log, LLDP, and port traffic statistics.
 - > CPU monitoring, memory monitoring, Ping test, and cable diagnose.



Specifications

Model	AVSV-1TLA-000xA-xx
	8*10/100/1000Base-T RJ45 ports (Data)
L. t	24*100/1000Base-X SFP ports (Data)
Interface	4*1/10G SFP+ fiber ports (Data)
	1*Console RS232 port (115200,N,8,1)
Managed Type	L2+
	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T
Nistrania Darkana	IEEE802.3u 100Base-TX, IEEE802.3ab 1000Base-T
Network Protocol	IEEE802.3z 1000Base-X, IEEE802.3ae 10GBase-SR/LR
	IEEE802.3x
	Port 1-8 support 10/100/1000Base-T, auto-sensing,
Ethernet Port Feature	Full/half duplex MDI/MDI-X self-adaption
	10G SFP+ optical fiber interface, default not matching
Fiber Port Feature	optical modules (optional order single-mode /
	multi-mode, single fiber / dual fiber optical module. LC)
Forwarding Mode	Store and Forward (Full Wire Speed)
Switching Capacity	598Gbps
Forwarding Rate@64byte	107.14Mpps
MAC	32K
Buffer Memory	32M
Jumbo Frame	9.6K
	10BASE-T: Cat3,4,5 UTP(≤100 meter)
Twisted Pair Transmission	100BASE-TX: Cat5 or later UTP(≤100 meter)
	1000BASE-T: Cat5e or later UTP(≤100 meter)
Optical Fiber Cable	Multi mode: 850nm / 0 ~ 500M(1.25G), 0-300M(10G),
Optical Fiber Cable	single mode: 1310nm /0 ~ 40KM, 1550nm 0 ~ 120KM.
Total PWR / Input Voltage	60W/AC100-240V)
Power Consumption	Standby<20W, Full Load<45W
Power Supply	Built-in power supply, AC 100~240V 50-60Hz 1.0A



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LED Indicator	Power: PWR (yellow), system: SYS(yellow), Network: Link (yellow), fiber port: L/A (green)	
Reset Button	yes, support one key to restore factory settings	
Operation TEMP/Humidity	-20~+55°C;5%~90% RH Non condensing	
Storage TEMP / Humidity	-40~+80°C;5%~95% RH Non condensing	
Dimension (LxWxH)	440*290*44.5mm	
Net / Gross Weight	<3.5kg / <4.3kg	
Installation	Desktop, 19 inch 1U cabinet installation	
Lightning protection / Protection Level	Lightning protection: 4KV 8/20us; Protection level: IP30	
Certification	CE mark, commercial; CE/LVD EN60950; FCC Part 15 Class B; RoHS	



Managed Series Feature	Managed Series Feature		
	IEEE802.3X (Full-duplex)		
	Port temperature protection setting		
	Port green Ethernet Energy-saving setting		
Interface	Broadcast storm control based on port speed		
	The speed limit of the message flow in the access port.		
	The minimum particle size is 64Kbps.		
	L2+ network management, IPV4/IPV6 management		
Layer3 Function	L3 soft routing forwarding, Static route, Default route @ 128 pcs,		
	APR @ 1024 pcs		
	VLAN based on MAC		
	VLAN based on the protocol		
VLAN	Voice VLAN, QinQ configuration		
	4K VLAN based on port, IEEE802.1q		
	Port configuration of Access, Trunk, Hybrid		
Dort Aggregation	LACP, Static aggregation		
Port Aggregation	Max 18 aggregation groups and 8 ports per group.		
Spanning Tree	STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s)		
Industrial Ring Network	G.8032 (ERPS), Recovery time less than 20ms 255 Ring at most,		
Protocol	Max 254 devices per ring.		
Multicast	MLD Snooping v1/v2, Multicast VLAN		
Mullicast	IGMP Snooping v1/v2, Max 1024 multicast groups, Fast log out		
Port Mirroring	Bidirectional data mirroring based on port		
	Flow-based Rate Limiting		
QoS	Flow-based Packet Filtering		
	8*Output queues of each port		
	802.1p/DSCP priority mapping		
	Diff-Serv QoS, Priority Mark/Remark		
	Queue Scheduling Algorithm (SP, WRR, SP+WRR)		
ACL	Port-based Issuing ACL, ACL based on port and VLAN		
	L2 to L4 packet filtering, matching first 80 bytes message.		
	Provide ACL based on MAC, Destination MAC address, IP		
	Source, Destination IP, IP Protocol Type, TCP/UDP Port,		
	TCP/UDP Port Range, and VLAN, etc.		



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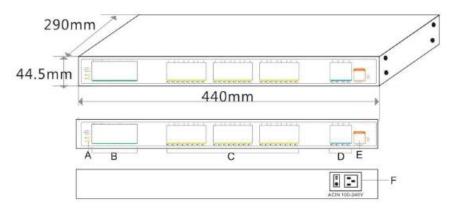
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Security	IP-MAC-VLAN-Port binding
	ARP inspection, Anti-DoS attack
	AAA & RADIUS, MAC learning limit
	Mac black holes, IP source protection
	IEEE802.1X & MAC address authentication
	Broadcast storm control, Backup for host datum
	SSH 2.0,SSL,Port isolation, ARP message speed limit
	User hierarchical management and password protection
	Support DHCP Client
DHCP	Support DHCP Snooping
DUCE	Support DHCP Serve
	Support DHCP Relay
	One-key recovery
	Cable Diagnose, LLDP
	Web Management (HTTPS)
	NTP, System work log, Ping Test
Management	CPU instant utilization status view
Management	Console/AUX Modem/Telnet/SSH2.0 CLI
	Download & Management on FTP, TFTP, Xmodem, SFTP,
	SNMP V1/V2C/V3
	NMS - smart network management system platform
	(LLDP+SNMP)
System	Category 5 Ethernet network cable
	Web browser: Mozilla Firefox 2.5 or higher, Google browser
	chrome V42 or higher, Microsoft Internet Explorer10 or later;
	TCP/IP, network adapter, and network operating system (such
	as Microsoft Windows, Linux, or Mac OS X) installed on each
	computer in a network



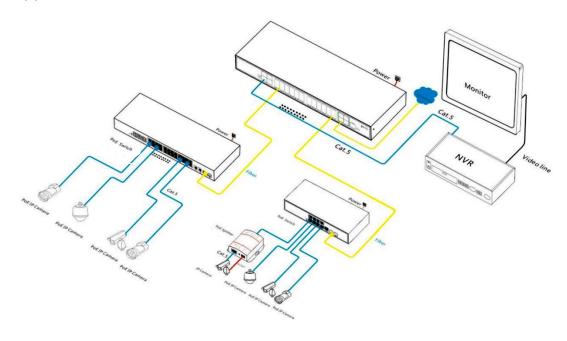
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Dimensions



- A. Working indicator
- B. 8*10/100/1000M RJ45 ports
- C. 24*100/1000M SPF fiber ports D. 4*1/10G SPF+ fiber ports
- E. Console port
- F. Power input port AC100-240V,50/60Hz

Application





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Packing list

PACKING LIST	CONTENT	QTY	UNIT
	36-Port 10G uplink managed Ethernet fiber switch	1	SET
	(AVSV-1TLA-000xA-xx)		
	Power Cable	٦	PC
	RJ45-DB9 Line	7	PC
	Mounting Kits (Hanging Ear)	7	SET

Ordering information

Part Number	Description
AVSV-1TLA-0001A-xx	L2+ managed Ethernet fiber switch with 8 ports 10/100/1000M
	RJ45 ports and 24 ports 100/1000M SFP fiber slot ports and 4
	ports 1/10G SFP+ fiber slot ports with EU power cord
AVSV-1TLA-0003A-xx	L2+ managed Ethernet fiber switch with 8 ports 10/100/1000M
	RJ45 ports and 24 ports 100/1000M SFP fiber slot ports and 4
	ports 1/10G SFP+ fiber slot ports with US power cord
AVSV-1TLA-0000A-xx	L2+ managed Ethernet fiber switch with 8 ports 10/100/1000M
	RJ45 ports and 24 ports 100/1000M SFP fiber slot ports and 4
	ports 1/10G SFP+ fiber slot ports without power cord

xx= customized

