AVAIVI
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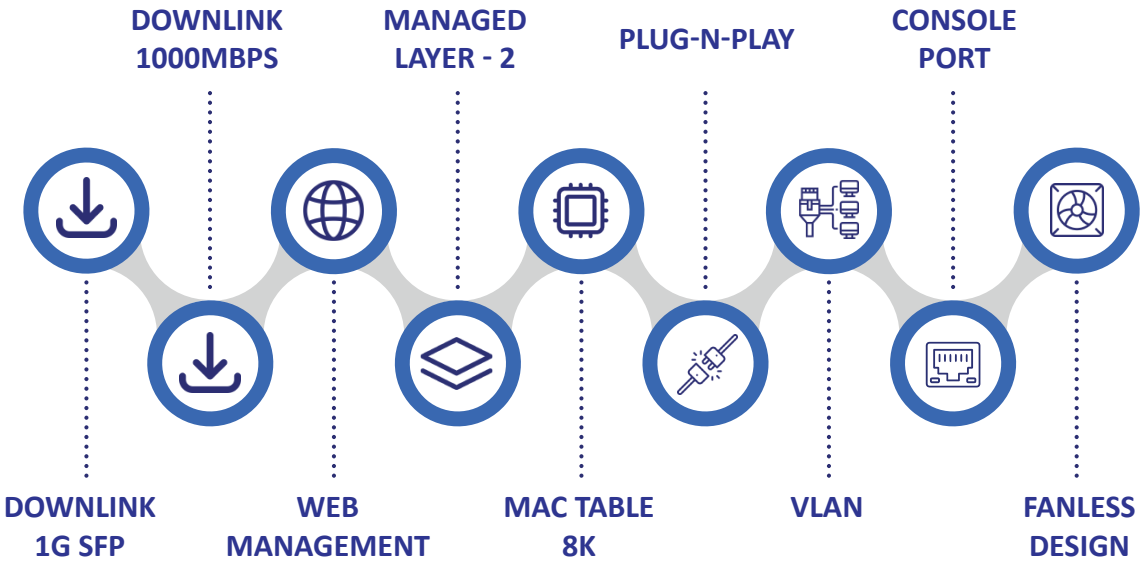
MAKE IN INDIA

9 Port 1G SFP Network Switch (Managed L-2)

Model ANSV-AFS9T2M

FEATURES

- 9X10/100/1000MBPS SFP FIBER PORT SUPPORT.
- 2×10/100/1000MBPS RJ-45 PORT SUPPORT.
- SUPPORT 1 CONSOLE PORT FOR CLI ACCESS.
- BACKPLANE BANDWIDTH SPEED 128GBPS
- WEB MANAGMENT LAYER-2 FEATURES.
- LIGHTINING PROTECTION UPTO 6 KV.
- PLUG-N-PLUG FOR EASY TO USE.
- FANLESS LOW HEAT DESIGN.



9 PORT 1G SFP NETWORK SWITCH (MANAGED L-2)

AVAIVI's Fiber Switches are a high-performance solution designed to meet the demands of modern industrial networks. With downlink options supporting 1G SFP and 1000Mbps, along with an efficient uplink of 10G SFP, it ensures seamless data transmission at high speeds. The web management feature provides user-friendly control and configuration, making it easy to manage network settings. Offering managed Layer-3 capabilities, the switch facilitates efficient routing and enhances network performance. These switches boast a large MAC table with a capacity of 16K, allowing for extensive device connectivity. Its plug-and-play functionality simplifies installation, while VLAN support ensures effective network segmentation. The inclusion of a console port offers additional flexibility in management and troubleshooting. To ensure optimal performance, the switch features a cooling fan, making it suitable for sustained operation in industrial environments. Trust AVAIVI for robust and reliable fiber switches tailored to the demands of industrial networking.v

DOWNLINK 1G SFP

AVAIVI's Firber Switches boast an impressive downlink speed of 1000Mbps, providing high-performance data transfer capabilities. Also known as Gigabit Ethernet, this feature ensures swift and efficient communication from the switch to connected devices, making it ideal for scenarios with increased bandwidth demands. With a downlink speed of 1000Mbps, AVAIVI's Firber Switches deliver a significant boost in data throughput. This makes them well-suited for applications where large data files need to be transferred quickly or where high-resolution video streaming and other bandwidth-intensive tasks are common. Organisations can rely on AVAIVI's Firber Switches with a downlink speed of 1000Mbps to support advanced networking needs, ensuring a seamless and responsive network infrastructure for a wide range of applications, including video surveillance, data-intensive tasks, and high-speed connectivity requirements.

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WEB MANAGEMENT

AVAIVI's Firber Switches come equipped with a user-friendly Web Management interface, offering a convenient and accessible way to configure and monitor the switch settings. This feature enables administrators and IT professionals to manage the switch efficiently through a web-based graphical interface, providing a comprehensive set of tools and options. With Web Management, users can easily access and control various aspects of the Firber Switch, including port configurations, VLAN settings, Quality of Service (QoS) parameters, security features, and more. The intuitive interface simplifies the configuration process, allowing users to make adjustments and optimisations without the need for complex command-line interfaces. Web Management enhances the overall user experience by providing a visual and interactive platform for managing and maintaining the Firber Switch. This feature is particularly valuable for organizations seeking a straightforward and accessible way to oversee their network infrastructure.

MANAGED LAYER-2

AVAIVI's Firber Switches boast Managed Layer-2 functionality, providing advanced networking capabilities at the data link layer. This feature allows administrators to have granular control over the switch's operations, making it a powerful tool for optimizing network performance and ensuring efficient data transfer within the local network. With Managed Layer-2 support, administrators can implement features such as Virtual LANs (VLANs) to segment the network, enhance security through MAC address filtering, and optimize bandwidth usage with features like Quality of Service (QoS) and Spanning Tree Protocol (STP). These capabilities contribute to creating a more robust and organized network infrastructure. Organisations benefit from the Managed Layer-2 functionality in AVAIVI's Firber Switches by gaining the flexibility to tailor their network to specific requirements, enhance security measures, and achieve optimal performance in data communication. This feature is particularly valuable for businesses seeking a managed solution to address the complexities of their growing network infrastructure.

MAC TABLE 8K

AVAIVI's Firber Switches boast an advanced MAC (Media Access Control) table with an expansive capacity of 8K entries. The MAC table serves as a vital component, mapping MAC addresses to corresponding switch ports and facilitating efficient data forwarding within the local network. With a MAC table supporting 8K entries, AVAIVI's Firber Switches excel in managing and storing information about connected devices on the network. This capability ensures precise and swift data delivery by allowing the switch to make informed decisions on how to forward data packets based on destination MAC addresses. The MAC table with 8K entries in AVAIVI's Firber Switches offers a substantial boost to network performance, reduces latency, and optimizes overall efficiency in handling data traffic. This feature is particularly advantageous in environments with a large number of connected devices, ensuring seamless communication across the network.

PLUG-N-PLAY

AVAIVI's Firber Switches feature the convenience of Plug-n-Play functionality, simplifying the installation and setup process for users. This user-friendly attribute allows for effortless integration into network systems without the need for extensive configuration or technical expertise. With Plug-n-Play, AVAIVI's Firber Switches automatically detect and configure connected devices, streamlining the deployment process. This feature is particularly beneficial for users seeking a hassle-free and time-efficient solution, as it eliminates the complexities traditionally associated with network switch installations. Organisations benefit from the Plug-n-Play feature in AVAIVI's Firber Switches by saving time, reducing deployment costs, and ensuring a smoother transition to an optimized network infrastructure. This user-friendly feature is ideal for both novice users and experienced professionals, contributing to a more efficient and accessible networking experience.

VLAN

AVAIVI's Firber Switches come equipped with VLAN (Virtual Local Area Network) support, offering a powerful networking feature that enhances the organization and segmentation of network traffic. VLANs enable the isolation of network devices into logically segmented groups, even if they share the same physical network infrastructure. With VLAN support, AVAIVI's Firber Switches provide administrators with the ability to create multiple virtual networks within a single physical network. This feature helps optimize network performance, enhance security, and streamline network management by isolating

broadcast domains and improving bandwidth utilisation. Organisations benefit significantly from VLAN support in AVAIVI's Firber Switches, as it enables the efficient organization of network resources, enhances security by isolating sensitive data, and facilitates more precise control over network traffic. This feature is particularly valuable for businesses with diverse network requirements, allowing them to tailor their network infrastructure to specific organizational needs.

CONSOLE PORT

AVAIVI's Firber Switches are equipped with a Console Port, offering a direct and secure method for configuring and managing the switch. The Console Port serves as a serial interface that allows administrators to establish a direct connection to the switch for initial setup, configuration adjustments, and troubleshooting. With the Console Port feature, AVAIVI provides administrators with a reliable means of accessing the switch's command-line interface (CLI) using a serial cable and terminal emulation software. This direct connection proves valuable in scenarios where remote access may be limited or during initial setup procedures. Organisations benefit from the Console Port in AVAIVI's Firber Switches by ensuring a reliable and straightforward method for switch configuration and management. This feature is particularly useful for network professionals who require direct access to the switch's command-line interface for configuration and troubleshooting purposes.

FANLESS DESIGN

AVAIVI's Firber Switches boast a cutting-edge Fanless Design, providing users with a silent and efficient networking solution. Unlike traditional switches with cooling fans, AVAIVI's fanless design eliminates the need for noisy fan components, ensuring a quiet operation suitable for various environments. With a Fanless Design, AVAIVI's Firber Switches reduce potential points of failure associated with cooling fans, enhancing the overall reliability of the switch. This feature is particularly advantageous in noise-sensitive environments, such as offices, classrooms, or areas where a quiet and unobtrusive operation is essential. Organisations benefit from the Fanless Design in AVAIVI's Firber Switches by enjoying a reliable and noise-free networking solution. This feature contributes to a more pleasant working environment and ensures uninterrupted operation, making it an ideal choice for deployments where low noise levels are a priority.

9 PORT 1G SFP NETWORK SWITCH (MANAGED L-2)

Hardware Specification	
Network Ports	9×10/100/1000Mbps SFP Port
	2×10/100/1000Mbps RJ45 Port
	1xConsole Port
Network Protocol Standard	IEEE 802.3x, IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z, IEEE 802.3ad, IEEE 802.3q, IEEE 802.3q/p, IEEE 802.1w, IEEE 802.1d, IEEE 802.1S, IEEE 802.3z 1000BASE-X, STP(Spanning Tree Protocol), RSTP/MSTP(Rapid Spanning Tree Protocol), EPPS & EAPS ring network protocol
Backplane Bandwidth	128Gbps
Packet Forwarding rate	40.32Mpps
Transmission Mode	Store and Forward(full wirespeed)
MAC Address	MAC address table 8K
Package Cache	4.1M
Flash	128M
RAM	128M
LED Indicator	PWR: Power LED, 3~11:(SFP LED), Port:(Green=Link LED+Orange=PoE LED)
Power Input	DC-12V 2A
Power Consumption	≤20W
Operating Temperature	-20℃ ~ 55℃
Operating humidity	95% maximum relative humidity, non-condensing
Lightning Protection	6KV
Weight	0.7kg
Casing	Metal
Dimension	245mm x 110mm x 40mm
Software Specification	
MAC Address	MAC address learning and aging
VLAN	Support port based VLAN
	Up to 4096 VLAN
	Voice VLAN， can configure QoS for voice data
	4k VLANS； Port-based VLANs； 802.1Q VLAN
Spanning Tree	STP(Spanning Tree Protocol)
	RSTP/MSTP(Rapid Spanning Tree Protocol)
	EPPS ring network protocol
	EAPS ring network protocol
	802.1x argumentation agreement
Link Aggregation	Max 8 aggregation groups TRUNK, each supports 8 ports
	Static aggregation and dynamic aggregation
Port Mirror	Many-to-one port mirroring
Loop Guard	Loop protection function, real-time detection, rapid alarm, accurate positioning, intelligent blocking, automatic recovery
Isolation	Support downlink ports isolated from each other and communicate with upstream port
Port flow control	Half duplex based back pressure control
	Full duplex based on PAUSE frames
Line rate	Support port based input / output bandwidth management
IP binding	Support static ARP
Static routing	Support static routing
IGMP Snooping	Support 256 layers of set table capacity
	IGMPv1/2/3; MLDv1/2 Snooping
	GMRP protocol registration
	Multicast address management, multicast VLAN, multicast routing ports, static multicast addresses
DHCP	DHCP Snoping
Storm suppression	Unknown unicast, multicast, unknown multicast, storm suppression of broadcast type
	Storm suppression based on bandwidth tuning and storm filtering
Security	Support 256 groups of ACL
	Teams that support 4 different priorities per port
	User port+IP address+MAC
	ACL based on IP and MAC
	Security properties of port based MAC address quantities
	Support system CPU self protection

QOS	802.1p port queue priority algorithm
	Teams that support 4 different priorities per port
	Cos/Tos, QOS sign
	WRR (Weighted Round Robin), Weighted priority rotation algorithm
	WRR、SP、WFQ, 3 priority scheduling models
	Support based on port, MAC, 802.1Q, DSCP classification
Mesh line order	Support auto mdix function, automatically identify direct network cable and cross network cable
Negotiation mode	Port supports auto negotiation (self negotiation transmission rate and duplex mode)
system maintenance	Upgrade package upload
	system log view
	Support to upload / download configuration files through WEB
	Support multiuser management
	WEB restore factory configuration
Management maintenance	WEB NMS
	CLI Telnet, TFTIP Console, management based on
	Remote configuration and maintenance using Telnet
	SNMP V1/V2/V3 ; SSH V1/V2 ; RMON V1/V1

ABOUT AVAIVI

AVAIVI is a dynamic and innovative DPIIT recognised Startup Company for its commitment to driving excellence, fostering innovation, and contributing to Bharat's burgeoning entrepreneurial landscape. AVAIVI specialises in providing cutting-edge Audio-Visual Solutions, AI-based Software and Security & Surveillance Technology.

AV Technology: AVAIVI's state-of-the-art audio-visual solutions redefine how information is presented and shared. Our innovative AV solutions include interactive displays, digital signage, audio systems, and immersive multimedia experiences.

AI Software Suite: From predictive analytics to process optimization, our AI-based software applications empower organizations to make informed decisions, streamline operations, and stay ahead in a rapidly evolving digital landscape.

Video Surveillance: AVAIVI's expertise in CCTV security surveillance technology goes beyond traditional monitoring. Our comprehensive solutions encompass advanced camera systems, intelligent video analytics, and remote monitoring capabilities.