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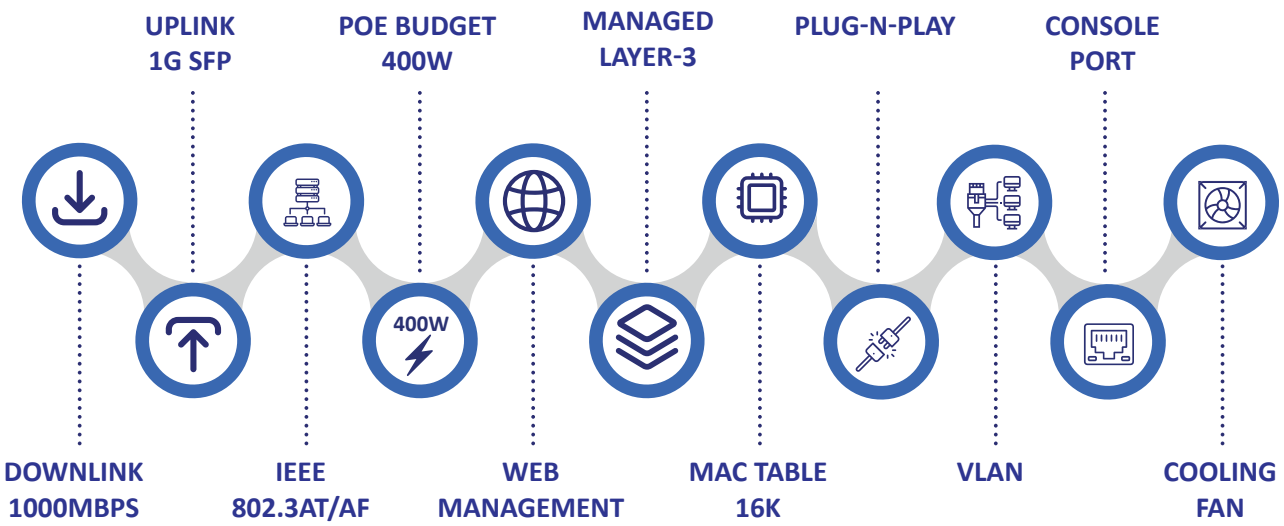
24 PORT POE GIGABIT ETHERNET SWITCH WITH 10G-SFP UPLINK PORT (MANAGED L-3)

Model
ANSJ-EPT24T4F4M

FEATURES

- 24X10/100/1000 MBPS PORT SUPPORT POE IEEE802.3AF/AT STANDRAD.
- SUPPORT UPLINK 4×10G SFP PORT FOR UNPARALLELED PERFORMANCE.
- SUPPORT 1 CONSOLE PORT TO CONFIGURE SWITCH DIRECTLT BY CLI.
- SUPPORT TOTAL POWER BUDGET MAXIMUM 400 WATT.
- SUPPORT SINGLE PORT OUTPUT MAXIMUM 30WATT.
- SUPPORT BACKPLANE BANDWIDTH SPEED 128GBPS
- HIGH PERFORMANCE CHIPSET, NO LAG VIDEO.
- WEB MANAGMENT LAYER-3 FEATURES.
- 100–240VAC VOLTAGE RANGE DESIGN.
- LIGHTINING PROTECTION UPTO 6 KV.
- PLUG-N-PLUG FOR EASY TO USE.
- SUPPORT FAN FOR COOLING.



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24 PORT POE GIGABIT ETHERNET SWITCH WITH 10G-SFP UPLINK PORT (MANAGED L-3)

AVAIVI's PoE Switches are meticulously designed to cater to the diverse needs of modern networking environments, offering a robust and feature-rich solution. With downlink options supporting both 100Mbps and 1000Mbps, and uplink choices of 100Mbps, 1000Mbps, 1G SFP, and 10G SFP, these switches ensure efficient and high-speed data transmission across your network. AVAIVI switches comply with IEEE 802.3at/af standards, delivering Power over Ethernet to connected devices. The extensive range of PoE budgets, from 65W to 400W, allows users to choose the right fit for their specific requirements, providing power to connected devices while simplifying cable management. AVAIVI's PoE Switches offer advanced management capabilities, including web management, and support for both Layer-2 and Layer-3 functionalities. The plug-and-play design ensures hassle-free installation, while VLAN support enables effective network segmentation for enhanced security. With features like Extend Mode and a console port, these switches offer added flexibility in deployment and management.

DOWNLINK 1000MBPS

AVAIVI's PoE Network 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 PoE Network 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 PoE Network 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.

UPLINK 1G SFP

AVAIVI's PoE Network Switches showcase an impressive uplink speed of 1000Mbps, also referred to as Gigabit Ethernet. This high-performance feature ensures swift and efficient data transfer from connected devices back to the central network, catering to scenarios with increased bandwidth demands. With an uplink speed of 1000Mbps, AVAIVI's PoE Network Switches significantly enhance data throughput, making them well-suited for applications where large data files need to be transmitted quickly or where high-speed communication from endpoints to the central network is essential. Organisations can rely on AVAIVI's PoE Network Switches with a 1000Mbps uplink speed to support advanced networking needs, providing a seamless and responsive network infrastructure for tasks that demand high-speed uplink connectivity, such as video streaming, data-intensive applications, and other bandwidth-intensive.

IEEE 802.3AT/AF

AVAIVI's PoE Network Switches adhere to the IEEE 802.3at/af standards for Power over Ethernet (PoE). This compliance ensures seamless and standardized delivery of power to connected devices, such as IP cameras, access points, and other PoE-enabled equipment. IEEE 802.3at, also known as PoE+, supports higher power requirements compared to its predecessor, IEEE 802.3af. This feature is especially beneficial for devices that demand more power, providing increased flexibility in the deployment of various PoE devices. By complying with the IEEE 802.3at/af standards, AVAIVI's PoE Network Switches enable organizations to deploy a wide range of PoE devices without compatibility concerns. This standardized approach simplifies the integration of PoE-enabled equipment into the network, ensuring efficient and reliable power delivery to connected devices.

POE BUDGET 400W

400W

AVAIVI's PoE Network Switches shine with an impressive PoE budget of 400W, signifying the maximum power capacity available for distribution to connected PoE devices. This substantial PoE budget ensures efficient and reliable power delivery, meeting the diverse needs of PoE-enabled devices such as IP cameras, access points, and various networking equipment. With a PoE budget of 400W, AVAIVI's PoE Network Switches provide exceptional flexibility, allowing for the simultaneous connection of multiple PoE devices without compromising on power availability. This feature is particularly advantageous in scenarios where a multitude of powered devices needs seamless integration into the network. Organisations can confidently rely on AVAIVI's PoE Network Switches with a 400W PoE budget to effectively meet the power requirements of their PoE-enabled devices. This ensures a robust and dependable power distribution system, supporting a wide range of applications within the network infrastructure.

WEB MANAGEMENT

AVAIVI's PoE Network 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 PoE Network 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 PoE Network Switch. This feature is particularly valuable for organizations seeking a straightforward and accessible way to oversee their network infrastructure.

MANAGED LAYER-3

AVAIVI's PoE Network Switches are equipped with advanced Managed Layer-3 functionality, providing sophisticated networking capabilities at the network layer. This feature empowers administrators with extensive control over the switch's operations, offering a comprehensive set of tools for optimizing routing, addressing, and overall network performance. With Managed Layer-3 support, administrators can implement dynamic routing protocols such as OSPF (Open Shortest Path First) and BGP (Border Gateway Protocol) for efficient routing decisions. IP subnetting, inter-VLAN routing, and multicast routing are additional features that contribute to a more versatile and scalable network infrastructure. Organisations benefit significantly from the Managed Layer-3 functionality in AVAIVI's PoE Network Switches, gaining the ability to design and manage complex networks with multiple subnets, optimize traffic flow, and enhance overall network efficiency. This feature is particularly valuable for businesses seeking a managed solution to address the evolving demands of their network architecture.

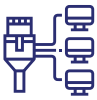
MAC TABLE 16K

AVAIVI's PoE Network Switches showcase an advanced MAC (Media Access Control) table with an extensive capacity of 16K entries. The MAC table plays a pivotal role in mapping MAC addresses to corresponding switch ports, facilitating efficient data forwarding within the local network. With a MAC table supporting 16K entries, AVAIVI's PoE Network 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 16K entries in AVAIVI's PoE Network Switches provides a significant enhancement to network performance, reducing latency, and optimizing 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 PoE Network 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 PoE Network 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 PoE Network 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 PoE Network 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 PoE Network 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 PoE Network 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 PoE Network 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 PoE Network 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.

COOLING FAN

AVAIVI's PoE Network Switches are equipped with an efficient Cooling Fan, designed to regulate and dissipate heat generated during the switch's operation. The Cooling Fan plays a crucial role in maintaining optimal temperature levels within the switch, ensuring continuous and reliable performance. With the Cooling Fan feature, AVAIVI's PoE Network Switches prevent overheating and contribute to the longevity and stability of the switch. This is particularly important in environments where the switch experiences high data traffic or is deployed in areas with elevated ambient temperatures. Organisations benefit from the Cooling Fan in AVAIVI's PoE Network Switches by ensuring the switch operates within the recommended temperature range, minimizing the risk of performance degradation or hardware damage due to overheating. This feature enhances the overall reliability and efficiency of the switch in diverse networking environments.

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HARDWARE SPECIFICATION	
Network Ports	24×10/100/1000Mbps RJ45 PoE+ Port
	4×1G/10G SFP Port
	1xConsole Port
Network Protocol Standard	IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.3af, IEEE 802.at, CSMA/CD, TCP/IP
Single Port Output	Up to 30Watt Max
PoE Power Budget	400 Watt
CCTV Extend Mode	N/A
VLAN Mode	Supported
Backplane Bandwidth	128Gbps
Packet Forwarding rate	95.23Mpps
Forwarding Rate	10Base-T: 14880PPS
	100Base-T: 148800PPS/port
	1000BASE-T:1488000PPS/port
	10000BASE-T:14880000PPS/port
MAC Address	MAC address table 16K
Package Cache	12MB
Jumbo frame	12kbytes
Port Function	Power, SYS, Link/Act:10/100/1000Mbps, POE+
LED Indicator	PoE Status indicator, whole power indicator
Power Input	Single, AC 100~240V, 50/60 Hz
Operating Temperature	-20°C ~ 55°C
Operating humidity	95% maximum relative humidity, non-condensing
Lightning Protection	6KV
Weight	4.2kg
Casing	Metal
Dimension	440mm x 285mm x 55mm

SOFTWARE SPECIFICATION	
Port Management	Enable/Disable port
	Speed, duplex, MTU setting
	Flow-control setting
	Port information view
Port Mirroring	Support port and aggregation group access direction
Port Speed Limiting	Support port speed limit, the granularity of the speed limit is determined by the chip
Port Isolation	Support port isolation setting
Storm Control	Support location unicast, unknown multicast, broadcast storm control
Link Aggregation	Support static manual aggregation, support VLACP dynamic aggregation
VLAN	Access/Trunk/Hybrid
	Support VLAN division based on port, protocol and MAC, support QINQ
	Support GVRP dynamic VLAN registration
	Voice VLAN (support required)
MAC	Support static add and delete
	MAC address learning quantity limit
	Support dynamic aging time setting
Spanning Tree	Support 802.1d（STP）
	Support IGMP-snooping
	Support 802.1S（MSTP）
Multicasting	Support static add and delete
	Support IGMP-snooping
	Support IGMP-snooping
	Support V1/2/3 dynamic multicast snooping
DDM	Support SFP/SFP+DDM
ACL	Based on source MAC
	Destination MAC
	Protocol type
	Source IP
	Destination IP
	L4 Port Number
QOS	Classification based on 802.1P (COS)
	Classification based on DSCP
	Classification based on source IP
	destination IP
	port number
	support for SP
	WRR scheduling policies
	Support traffic speed limit CAR
LLDP	Support LLDP link discovery protocol

User Setting	Add/Remove Users
Log	User login, operation, status, event record log
Anti-attack	DOS Defense Support for CPU protection
	limiting the rate of upgoing CPU messages ARP binding (IP, MAC, PORT binding)
Network Diagnosis	Support ping, Telnet, Trace
System Administration	Device reset, configuration save/revert, upgrade management, time setting, etc.
CLI	Support serial port command line management
Telnet	Support telnet remote management
SSH	Support SSHV1/2 remote management
SNMP	Support V1/2/3 Support trap: cold start, warm start ,link down, link up
Web	Support two levels of settings, two or three levels of view
RMON	Support RMONV1
POE Configuration	PoE configuration, PoE scheduling management, etc.
ERPS	Supported
Routing	RIP and OSPF Routes with IPv4/6

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.