



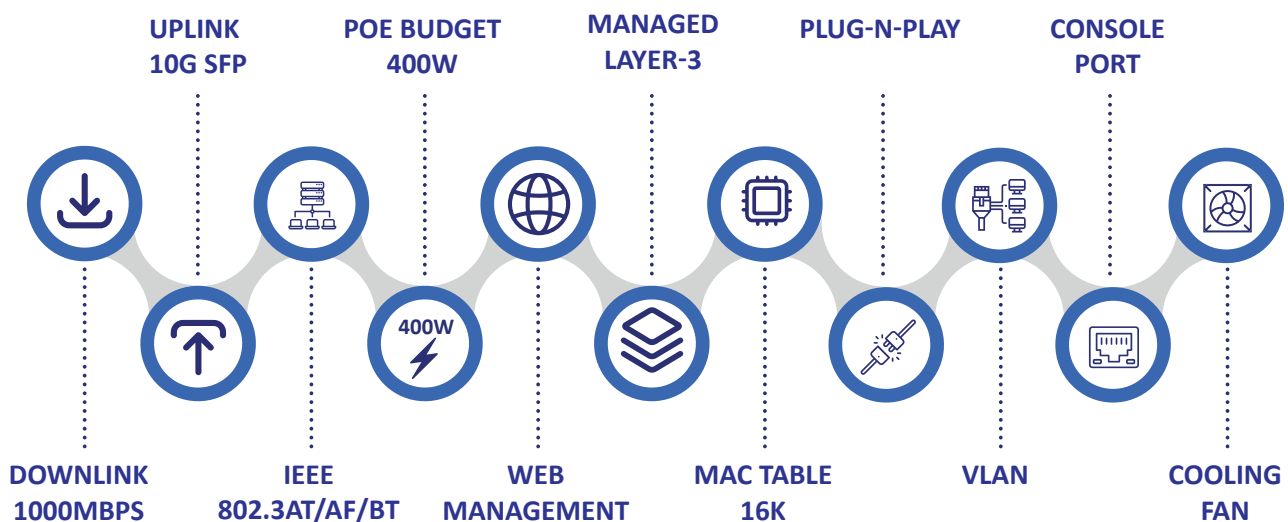
24 PORT POE GIGABIT ETHERNET SWITCH WITH 10G-SFP UPLINK PORT (MANAGED L-3)

Model
ANSV-EPT24F4M

Ver.02

FEATURES

- 24X10/100/1000 MBPS PORT SUPPORT POE IEEE802.3AF/AT/BT 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 256GBPS
- 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.



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 10G SFP



AVAIVI's PoE Network Switches showcase an impressive uplink speed of 10000Mbps, 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 10000Mbps, 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 10000Mbps 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/BT

AVAIVI's PoE Network Switches adhere to the IEEE 802.3at/af/bt 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.

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

Hardware Specification	
Network Ports	24x10/100/1000Mbps Based-T 4x1G/10G SFP Port 1xConsole Port
PoE Port	1-2 Port supports PoE IEEE 802.3af/at/poe++/BT3-24 Port supports PoE IEEE 802.3af/at
Network Protocol Standard	IEEE 802.3, IEEE 802.3u 100BASE-TX, IEEE 802.3ab1000BASE-T, IEEE 802.3x, IEEE 802.3z 1000BASE-X, IEEE 802.3af/at, IEEE 802.3bt, IEEE 802.3ad, IEEE 802.3q, IEEE 802.3q/p, IEEE 802.1w, IEEE 802.1d, IEEE 802.1S, STP(Spanning Tree Protocol), RSTP/MSTP(Rapid Spanning Tree Protocol), EPPS ring network protocol EAPS ring network protocol
Single Port Output	Up to 30Watt Max
PoE Power Budget	400 Watt
CPU	400MHz ARM® Cortex™-A9
DDR	2G DDR3 1333MHz
RAM	256M
VLAN Mode	Supported
Backplane Bandwidth	256Gbps
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
Flash	64M
LED Indicator	PWR:Power LED, SYS:(System LED) 1~24:(Link LED=10/100M Link, 1000M=Gigabit Link) 1~24:(PoE LED=PoE on) 25 26: (SFP LED)
Power Input	Dual Redundant Power AC 100~240V, 50/60 Hz
Operating Temperature	-20°C ~ 55°C
Operating humidity	95% maximum relative humidity, non-condensing
Lightning Protection	6KV
Weight	3.5kg
Casing	Metal
Dimension	440mm x 290mm x 45mm

Software Specification	
Port Shutdown	Supported
Port Speed	Support autonegotiate, full-1000, full-100, half-100, full-10, half- 10
Flow Control	support full-duplex IEEE 802.3x, half-duplex back pressure
Storm Control	Supports rate limit for broadcast, multicast, and DLF packets
Storm Constrain	Support the detection of broadcast packets, multicast packets, or unicast packets on the port, shutdown the port if the rate is over the threshold.
Port Mirror	Supported
Port Rate Limit	Support port ingress and egress rate limit
Link Aggregation	Support manual link aggregation Support LACP dynamic link aggregation
	Supports up to 32 aggregation groups, each group up to 8 ports Support source MAC, destination MAC, source destination MAC, source IP, destination IP, source destination IP routing strategy
Port Isolate	Supported
Jumbo Frame	Support up to 16KB packet
Redundant Port	Supported
MAC	
MAC Table Capacity	16K
MAC Table Management	Supported
Forwarding mode	Support IVL forwarding mode
Static MAC Address	Supported
MAC Address Binding	Supported
MAC Address Filtering	Supported
MAC Learning Control	Control the MAC learning based on port
VLAN	
Number of VLANs	4K
802.1q-based VLAN	Supported
MAC-based VLAN	Supported
IP-based VLAN	Supported
Protocol-based VLAN	Supported
Voice VLAN	Supported
VLAN Mapping	Support 1:1 mapping
QinQ	Support basic QinQ
	Support flexible QinQ
Reliability	
Spanning Tree Protocol	Support STP/RSTP/MSTP
Port Loop Detection	Supported
EAPS	Supported
ERPS	Support G.8032/Y.1344
LLDP	Support LLDP & LLDP-MED
UDLD	Fully compatible with CISCO's UDLD protocol
VLLP (VRRP Layer-2 Loop Protection)	Support, Only used with VRRP
L3	
ARP	Support static and dynamic ARP
Static Route	Supported
VLAN Interface	Support 32 VLAN interfaces
RIP	Support RIP v1/v2
OSPF	Support OSPFv2
Policy Route	Supported
VRRP	Supported
Multicast	
Static Multicast MAC Address	Supported
IGMP SNOOPING	Support IGMP SNOOPING v1/v2/v3 Support IGMP Querier
	Support IGMP SNOOPING Filter
MVR	Supported
GMRP	Supported

ACL	
Standard IP-based ACL	Supported
Extended IP based ACL	Supported
MAC IP-based ACL	Supported
MAC ARP-based ACL	Supported
ACL Port Filtering	Supported
Time-based ACL	Supported
QoS	
Port Queue Number	8
Port Queue Scheduling Mode	Support WRR, RR, WDRR, SP
Port-based Classification	Supported
802.1p-based Classification	Supported
DSCP-based Classification	Supported
ACL-based Classification	Supported
QoS Policy	Support packets mapping to queue Support COS or DSCP Remarking Support rate limits of data flow Support data flow statistics Support mirroring of data flow
DHCP	
DHCP Client	Supported
DHCP Snooping	Supported
DHCP Relay	Supported
DHCP Server	Supported
DHCP option 82	Supported
Management	
CLI Management	Support Console, Telnet and SSH
WEB Management	Support HTTP and HTTPS
SNMP Management	Support SNMP v1, v2c Support SNMP TRAP Support lots of standard and private MIBs
User Management	Support multiple user management
Log Management	Support local log management Support SYSLOG
RMON	Support RMON 1, 2, 3 and 9 groups
Cluster Management	Support NDP Support NTDP Support manual and automatic joining of cluster groups Support cluster unified management
Configuration File	Support uploading and downloading configuration file
Upgrade software	Supported
Clock Management	Support local clock management Support SNTP
Security	
Switch Management Security	Support enabling and disabling TELNET, WEB and SNMP services Support TELNET, WEB and SNMP services to bind to standard IP ACLs Support for limiting the number of TELNET connections
CPU Protection	The switch's own security protection prevents large data streams from attacking the switch itself.
AAA	Support 802.1x Support RADIUS Supports authentication, authorization, and accounting through RADIUS server Support port-based and MAC-based 802.1x Support 802.1x guest VLAN
IP MAC Binding	Support static configuration of IP, MAC and port binding
DHCP SNOOPING	Support dynamic ARP binding to prevent ARP spoofing Support dynamic IP, MAC and port binding Support fixed port to connect to DHCP server to prevent private connection to DHCP server
Prevent ARP Spoofing	Support manually configuring MAC ARP-based ACL rules to prevent ARP spoofing. Support the DHCP SNOOPING function. During the process of obtaining an IP address by DHCP, the switch dynamically binds ARP to the port to prevent ARP spoofing.
Debugging	
PING	Supported
TRACEROUTE	Supported
TELNET Client	Supported

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.

Disclaimer: The information provided in this product datasheet is intended for general informational purposes only. While we strive to ensure the accuracy and reliability of the information presented. It is important to note that product specifications and features may change without prior notice.