AVAIVI
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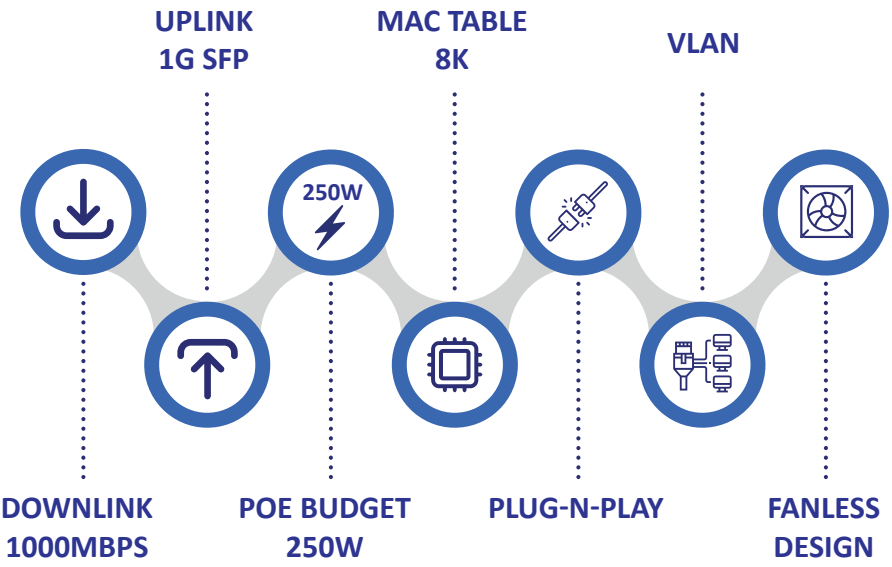
MAKE IN INDIA

16 Port PoE Gigabit Ethernet Switch with 2 1G-SFP Uplink Port

Model ANSJ-APT16S2

FEATURES

- 16X10/100/1000 MBPS PORT SUPPORT POE IEEE802.3AF/AT STANDRAD
- SUPPORT UPLINK PORT 2×10/100/1000MBPS SFP PORT.
- SUPPORT TOTAL POWER BUDGET MAXIMUM 250 WATT.
- SUPPORT SINGLE PORT OUTPUT MAXIMUM 30WATT.
- SUPPORT BACKPLANE BANDWIDTH SPEED 36GBPS
- SUPPORT MAC ADDRESS TABLE MAXIMUM 8K.
- HIGH PERFORMANCE CHIPSET, NO LAG VIDEO.
- 100–240VAC VOLTAGE RANGE DESIGN.
- LIGHTINING PROTECTION UPTO 6 KV.
- PLUG-N-PLUG FOR EASY TO USE.
- FANLESS LOW HEAT DESIGN.



16 PORT POE GIGABIT ETHERNET SWITCH WITH 2 1G-SFP UPLINK PORT

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 100MBPS

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 come equipped with an advanced uplink featuring a 1G SFP (Small Form-Factor Pluggable) port. This state-of-the-art uplink technology offers Gigabit Ethernet connectivity, ensuring high-speed data transfer from connected devices back to the central network. The inclusion of a 1G SFP uplink provides organizations with flexibility and scalability in their network infrastructure. SFP ports are known for their versatility, allowing for various types of optical or copper transceivers to be used, supporting different cable types and lengths. AVAIVI's PoE Network Switches with a 1G SFP uplink empower organizations to meet the demands of modern networking environments. This feature is particularly beneficial for scenarios requiring high-speed and reliable uplink connectivity, such as data centers, enterprise networks, or any application where seamless and efficient data transmission is paramount.

250W

POE BUDGET 250W

AVAIVI's PoE Network Switches are equipped with a substantial PoE budget of 250W, denoting the maximum power capacity available for distribution to connected PoE devices. This robust PoE budget ensures efficient and reliable power delivery, catering to the diverse needs of PoE-enabled devices, including IP cameras, access points, and various networking equipment. With a PoE budget of 250W, 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 250W 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.

MAC TABLE 8K

AVAIVI's PoE Network 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 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 8K entries in AVAIVI's PoE Network 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 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.

FANLESS DESIGN

AVAIVI's PoE Network 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 PoE Network 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 PoE Network 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.

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Hardware Specification	
Network Ports	16×10/100/1000Mbps RJ45 PoE+ Port
	2×10/100/1000Mbps SFP Port
Data PIN	1/2+, 3/6-
Network Protocol Standard	IEEE 802.3i, IEEE 802.3u, IEEE 802.3z, IEEE 802.ab, IEEE 802.3af, IEEE 802.at
Single Port Output	Up to 30Watt Max
PoE Power Budget	250 Watt
CCTV Extend Mode	N/A
VLAN Mode	Supported
Backplane Bandwidth	36Gbps
Forwarding Mode	Store-and-forward, Half-duplex back pressure and IEEE 802.3x full-duplex flow control
Packet Forwarding rate	26.78Mpps
Forwarding Rate	10Base-T: 14880PPS
	100Base-T: 148800PPS/port
	1000BASE-T:1488000PPS/port
Network Latency	Less than 20us for 64 byte frames in store-and-forward mode for 1000Mbps to 1000Mbps transmission
MAC Address	MAC address table 8K
Port Function	Power, SYS, Link/Act:10/100/1000Mbps, POE+
LED Indicator	System: Power, PoE Maximum power Per port: Link, Activity, Speed, PoE active, PoE error
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	1.80kg
Casing	Metal
Dimension	312mm x 185mm x 46mm

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.