**ALLOY**



## Overview

The ALLOY AWPS-24T4SFP is a Web Smart 802.3at PoE Gigabit Ethernet switch. With 20x 10/100/1000Base-T RJ-45 copper ports and 4x Paired GbE Copper/(100M/1000M) SFP ports and a Switching Capacity of 48Gbps, this high performance Gigabit Ethernet device is ideally suited for smaller networks as their primary switch, or as a departmental switch in larger networks. With the added flexibility of supporting both 100Mbps and 1000Mbps SFP Modules this switch can be integrated quickly and easily into your existing networking infrastructure.

The SFP slots on the switch support all types of Fast Ethernet and Gigabit SFP modules – 100Base-TX Copper or 1000Base-T copper UTP as well as multimode, single mode and WDM network connectivity over fibre optic cable – enabling copper or fibre uplinks.

With a wide range of web smart management features, the AWPS series is the perfect choice for applications that do not require the full functionality of a SNMP Managed switch. Web Smart features include VLAN's, Port Trunking, STP/RSTP, IGMP Snooping, Port Mirroring, Loop Detection, Broadcast Storm Protection and much more.

## Features

- Full-duplex flow control (IEEE802.3x) and half-duplex backpressure
- 20x 10/100/1000Mbps Auto-negotiation Gigabit Ethernet ports
- 4x Paired GbE UTP / (100/1000Mbps) SFP Fibre ports
- IEEE 802.3at/af PoE Support on all 8 Ports
- Jumbo frame support 9KB
- Web smart features provide easy Management, Security, QoS, and Performance
- Up to 30W per port, 185W total PoE Power

## Specifications

### Performance

**Switching Capacity and Forwarding Rate:**
Capacity in Millions of Packets per second (mpps) (64-byte packets): 35.71
Switching Capacity in Gigabits per second (Gbps): 48

### General

**Jumbo Frames:** Frame sizes up to 9KB supported on Gigabit interfaces

**MAC Table:** Up to 8K MAC addresses.

## Interface

**Ports:**
Total Ports: 24 GbE
RJ-45 Ports: 20 GbE
UTP/(100/1G) SFP: 4

## Layer 2 Switching

**Trunking:** Static Trunk (Link Aggregation)
- Up to 12 Groups
- Up to 24 ports per group

**Spanning Tree Protocol (STP):**
Standard Spanning Tree 802.1d
Rapid Spanning Tree (RSTP) 802.1w

**VLAN:** Supports up to 16 VLANs
- 802.1Q tag-based VLAN
- Port-based VLAN
- Port Isolation
- Management VLAN

**IGMP v1/v2 snooping:** IGMP v1/v2 snooping limits bandwidth-intensive multicast traffic to only the requesters. Supports 64 multicast groups (source-specific multicasting is also supported)

**Port mirroring:** Traffic on a port can be mirrored to another port for analysis with a network analyser or RMON probe. Up to N-1 (N is Switch's Ports) can be mirrored to single destination port. A single session is supported.

**Loop detection:**
Support the loop detection for easy maintenance method to solve network failure problem.

**Broadcast Storm Protection:**
Prevents traffic on a LAN from being disrupted by a broadcast storm on a port.

## Quality of Service

**Hardware Priority Queue:**
Supports 8 hardware queues

**Scheduling:**
Strict priority
Queue assignment based on DSCP and class of service (802.1p/ CoS)

**Classification:**
Port based; 802.1p VLAN priority based; DSCP based; Differentiated Services (DiffServ)

## Management

**Web GUI interface:**
Built-in switch configuration utility for browser-based device configuration (HTTP). Supports configuration, system dashboard, maintenance, and monitoring.

**Dual Image:**
Dual image provides independent primary and secondary OS files for backup while upgrading

**SNMP:** SNMP version 1, 2c with support for traps

**Reset Button:**
Provides device reboot and reset to default for recovery and maintenance

## Power over Ethernet (PoE)

**IEEE 802.3at PoE delivered over each of the RJ-45 ports within the listed power budgets:**
IEEE 802.3at: Port 1-24
IEEE 802.3af: Port 1-24
Power Dedicated to PoE: 185W Total PoE Power

**PoE Port configuration:** Supports per Port configuration the PoE function

**PoE Scheduling:** Supports per Port PoE scheduling to turn on/off the PoE

## Environmental

**Dimensions:** 442 (W)x 44 (H) x 170.3 (D) mm

**Weight:** 2.4 Kg

**Power:** 100-240 VAC 50~60 Hz, internal , universal

**Operating temperature:** 0° to 40° C

**Storage temperature:** -20° to 70° C

**Operating humidity:** 10% to 90% , relative, noncondensing

**Certification:** CE Mark, FCC Part 15 Class A, C-Tick

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