

Adsw2924



FEATURES

- TSN 対応マネージドスイッチ
- 10GbE SFP+ ポート x2 を搭載
- L2 ワイヤースピード・スイッチング・エンジン
- VLAN モニタリング
- 電源二重化、逆接保護、過渡電流保護

Adsw2924 は TSN(Time Sensitive Network)に対応した 10 ポートの L2 マネージド Ethernet スイッチです。

TSN 標準 IEEE 802.1AS gPTP Generalized Precision Time Protocol、IEEE 802.1Qbv タイムアウェアシェーパ/スケジューラ、IEEE 802.1CB シームレス冗長化したリアルタイムネットワークによりデータの待ち時間を保証し、データ損失ゼロを実現します。

Adsw2924 は、よりシビアな同期性が求められる環境での使用に適しています。また、10GbE SFP+ポートを 2 口搭載しているため、より速度が求められる場面でもご活用いただけます。

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Specifications

Industrial TSN 10 Gigabit Ethernet Switch



仕様

Ports	10/100/1000BaseT(X)	8
	SFP+	2
Ethernet	Operating mode	Store and forward, L2 wire-speed/non-blocking switching engine
	MAC addresses	32K
	Packet Memory/Buffer	4MB per system
	Jumbo frames	10K Bytes
Copper RJ45 Ports	Speed	10/100/1000 Mbps
	MDI/MDIX Auto-crossover	Support straight or cross wired cables
	Auto-negotiating	10/100/1000 Mbps speed auto-negotiation; Full and half duplex
	Port types supported	SFP (pluggable) Ports 1G/10G BaseSFP+ slot
SFP (pluggable) Ports	Fiber port connector	LC typically for fiber (depends on module)
	Optimal fiber cable	Typical 50 or 62.5/125 μm for multimode (mm); Typical 8 or 9/125 μm for single mode (sm)
Network Redundancy	Spanning Tree Protocol	IEEE 802.1D STP, IEEE 802.1w RSTP, IEEE 802.1s MSTP
	Port Trunk with LACP	Static trunk or Dynamic via LACP (Link Aggregation Control Protocol)
	ERPS	G.8032 (Ethernet Ring Protection Switching v2) (recovery time < 50ms)
Bridge, Virtual Local Area Networks (VLANs) & Protocols	Flow control	IEEE 802.3x (Full Duplex) and Back-Pressure (Half Duplex)
	Max VLANs	1024
	VLAN Types	Port-based VLANs; MAC-based VLANs; IP Subnet-based VLANs; Protocol-based VLANs; IEEE 802.1Q tag-based VLANs; RADIUS-assigned VLAN; IEEE 802.1ad Double Tagging (Q in Q)
	Multicast protocols	IGMP v1, v2, v3 with up to 255 multicast groups; IGMP snooping and querying; Immediate leave and leave proxy; Throttling and filtering
	LLDP	IEEE 802.1ab Link Layer Discovery Protocol (LLDP)
	Priority	IEEE 802.1p CoS (QoS)
Traffic management engine & QoS	Number of queues per port	8
	Scheduling schemes	SPQ, WRR
	Traffic Shaper/ Bandwidth Control	port-based shaping; rate limit control of ingress/ egress
Security	Port security	IP and MAC-based access control & ACL; IEEE 802.1X authentication Network Access Control
	Storm Control	Multicast/Broadcast/Flooding Storm Control
TSN Features		IEEE 802.1AS gPTP Generalized Precision Time Protocol
		IEEE 802.1Qbv Time Aware Shaper/Scheduler
		IEEE 802.1Qbu / 802.3br Frame Preemption
		IEEE 802.1CB Seamless Redundancy (Zero Packet Loss)
		IEEE 802.1Qav Credit-based Traffic Shaper
		IEEE 802.1Qch Cyclic Queuing and Forwarding
Management	User Management interfaces	Cisco-like CLI (command line interface); WEB-based Management; SNMP v1, v2c & v3; Telnet (5 sessions); USB 2.0 Interface (USB Disk)
	Management Security	HTTPS, SSHv2; Radius Client for Management
	Upgrade & Restore	USB/HTTP/TFTP configuration import/export; USB/HTTP/TFTP firmware upgrade
	Diagnostic	Syslog; Per VLAN mirroring; Ethernet Copper connection diagnostic tool; SFP with DDM (Digital Diagnostic Monitoring)
	MIBs	RFC 1757 RMON 1,2,3,9; RFC 2674 Q-Bridge MIB RFC-1213 MIB-II; RFC-1493 Bridge MIB; RFC 2233 IF MIB
	DHCP	Client, Server, Snooping, Relay Agent with Option 82
	Time Synchronization	IEEE 1588 PTP, NTP
	System status	Device info/status; Ethernet port status
	Power input	Redundant Input Terminals
	Input voltage range	12-48 VDC
Power	Reverse power protection	Yes
	Transient protection	> 15,000 watts peak
	Power consumption	22W @24VDC
Indicators	Power Status indication	Indication of power input status
	Ethernet port indication	Link & Speed
	System Alarm	Profile-defined System Alarm
Environmental & Compliances	Operating temperature range	-10 to +55°C (Standard, w/o heatsink); -10 to +70°C (Extended, heatsink)
	Storage temperature range	-40 ~ +85°C
	Humidity (non-condensing)	5 ~ 95% RH
	Vibration, shock & freefall	IEC60068-2-6, -27, -32
	Certification compliance	CE/FCC/VCCI; CC-LINK IE TSN Class A & B; EN55032
	EMC	FCC Part 15 Subpart B; ANSI C63.4; Canada ICES-003 IEC61000-4-2, -3, -4, -5, -6, -8
	RoHS	RoHS (Pb free) and WEEE compliant
	MTBF	> 25 years
	Ingress protection	IP30
	Installation option	DIN-Rail mounting, Wall mounting
Mechanical	Dimension (mm)	With heatsink (HWD): 193 x 61.5 x 161.5 mm
	Weight	2350g

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