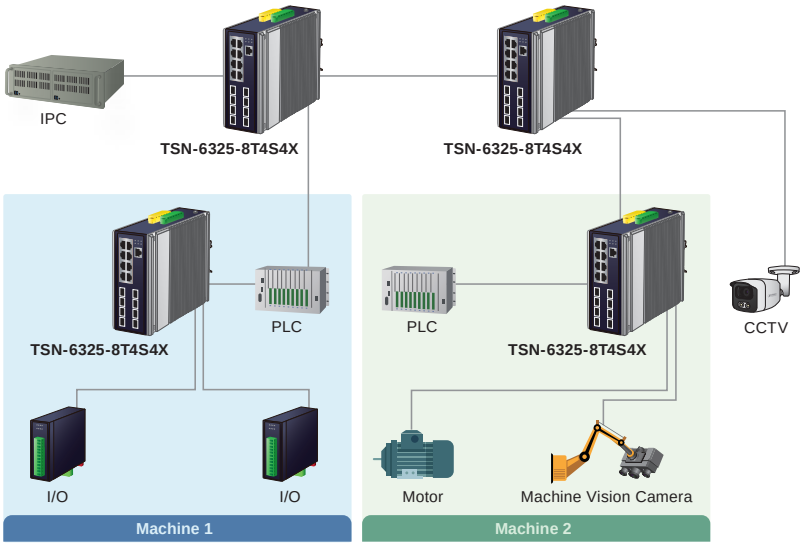
A Simplified Pathway to a TSN Compatible Infrastructure

PLANET TSN-6325/TSN-5225 series is a brand-new Industrial-grade Time-Sensitive Networking (TSN) Managed Ethernet Switch. The TSN-6325/TSN-5225 series provides real-time, low-latency network communication for industrial automation, 5G NR networks, Industry 4.0, and 4K/8K streaming video, VR/AR gaming industry by using the Time-Sensitive Networking (TSN) technology and IEEE 1588 Precision Time Protocol (PTPv2) time synchronization on all ports.

The TSN-6325/TSN-5225 series supports TSN IEEE standards needed for a complete real-time communication solution. These include IEEE 802.1AS-REV profile for Time Synchronization, IEEE 802.1Qbv Enhancements for Scheduled Traffic, IEEE 802.1Qbu/802.3br for Delay Reduction, IEEE 802.1Qci (PSFP) for Stream Policing and IEEE 802.1CB (FRER) for Seamless Redundancy.

The TSN-6325/TSN-5225 series eliminates the need for separate Information Technology (IT) and Operational Technology (OT) Ethernet networks, providing a more ubiquitous approach to synchronization and precision timing for today's industrial automation systems.

- **Time Synchronization**
- **High Availability & Reliability**
- **Traffic Shaping**
- **Bounded Latency**



DIN-rail L3/L2+ Managed TSN Switches

		DIN-rail L3/L2+ Managed TSN Switches		
Model		TSN-6325-8T4S4X	TSN-5225-6T2C	TSN-5225-4T
	Product Imange			
Hardware	10/100/1000BASE-T	8	8	4
	100/1000/2500BASE-X SFP	4	2(Combo)	–
	10GBASE-X SFP+	4	–	–
	Switch Fabric	96Gbps	16Gbps	8Gbps
	DI/DO	2 DI & 2 DO	2 DI & 2 DO	2 DI & 2 DO
Power	Inputs	Dual 9~48V DC or 24V AC	Dual 9~48V DC or 24V AC	Dual 9~48V DC or 24V AC
	Connector	6-pin terminal block	6-pin terminal block	6-pin terminal block
	Consumption	22 watts	9 watts	6 watts
Mechanical	Dimensions (W x D x H)	80 x 135 x 152 mm	60 x 135 x 135 mm	60 x 135 x 135 mm
	Enclosure	IP30 aluminum		
	Mounting	DIN-rail, wall-mountable		
Environment	Operating Temperature	-40~75 degrees C		
	Operating Humidity	5%~70% RH(Non-condensing)		
Regulatory	Emissions	FCC Class A, CE Class A	FCC Class A, CE Class A	FCC Class A, CE Class A
	Stability	IEC60068-2-32 (Free Fall), IEC60068-2-27 (Shock), EC60068-2-6 (Vibration)		
Layer 3 Features	IP Interfaces	128 VLAN	8 VLAN	8 VLAN
	Routing Tables	3072	32	32
	Routing Protocols	RIPv1/v2, OSPFv2/v3, Static Routing	Static Routing	Static Routing
	Accelerated Hardware	•	–	–
Protocol	VLAN	Port-based VLAN/IEEE 802.1Q VLAN/Q-in-Q/Private VLAN/Mac-based VLAN/ Protocol-based VLAN/Voice VLAN/MVR/GVRP		
	IGMP Snooping	v1/v2/v3/query	v1/v2/v3/query	v1/v2/v3/query
	Spanning Tree	802.1w/802.1s	802.1w/802.1s	802.1w/802.1s
	Data Redundancy	Supports ERPS, and complies with ITU-T G.8032/ Recovery time < 10ms @ 3 nodes Recovery time <50ms @ 16 nodes/ Supports Major ring and sub-ring		
	Synchronization	IEEE 1588v2 PTP(Precision Time Protocol)/ PTP Master/PTP Slave/Boundary clock Peer-to-peer transparent clock/End-to-end transparent clock		
	Time-Sensitive Networking Protocols	High Precision Time Synchronization • IEEE1588 (Time Stamping) • 802.1AS-Rev gPTP default profile		
		Shapers • 802.1Qbv (Enhancements for Scheduled Traffic) • 802.1Qch (Cyclic Queuing and Forwarding)		
		Redundancy • 802.1CB (Seamless redundancy, Frame Replication and Elimination for Redundancy) • Also standard Linear and Ring protection		
		Delay reduction • 802.1Qbu/802.3br (Frame Preemption)		
	QoS	Port-based/802.1P/IP DSCP Policy-based/Voice VLAN		
	Security	802.1x, Static MAC, MAC filter, Port Security and IP Security		
	Traffic Control	In/out rate limit, storm control		
Management	Interface	Console, Web, Telnet, SSHv2 and TLSv1.2		
	SNMP	v1, v2c, v3 and trap		
	Alarm	Power and port alarm		
	System Log	System Log and remote Syslog		

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