

DPtech LSW2000 Series Industrial Ethernet Switches



Hangzhou DPtech Technologies Co., Ltd.

Overview

DPtech Industrial Ethernet Switches are designed for power substation automation, transportation automation and robust outdoor applications in hazardous environments. To meet requirements of mission-critical applications and harsh environments, DPtech Industrial Ethernet Switches provide maximum reliability, real-time communication and comprehensive network security services. Compared with Ethernet switches, Industrial Ethernet Switches are more demanding on hardware design and electron-components, thus to ensure high reliability under hazardous conditions.

Traditional industrial Ethernet switches are usually based on open-source operation system, which has vulnerabilities and poor reliability issues, and lack of advanced Ethernet protocols. Due to deep understanding of industrial applications, DPtech launched next generation Industrial Ethernet Switches which are based on self-developed ConPlat operation system featured with most comprehensive networking and security services. DPtech Industrial Ethernet Switches can be applied in various harsh environments, which adopt fanless design and industry leading architecture, and provide -40~85 °C operating temperature and abundant network security services.

Product Series

LSW2000-8T-I

L2 DIN-Rail Industrial Ethernet Switch: 8 FE RJ45 ports



LSW2000-8T2GP-I

L2 DIN-Rail Industrial Ethernet Switch: 8 FE RJ45 ports and 2 GE SFP ports



LSW2000-2T8P-I

L2 DIN-Rail Industrial Ethernet Switch: 2 FE RJ45 ports and 8 FE SFP ports



LSW2000-8T4P-I

L2 DIN-Rail Industrial Ethernet Switch: 8 FE RJ45 ports and 4 FE SFP ports



LSW2000-16T-I

L2 DIN-Rail Industrial Ethernet Switch: 16 FE RJ45 ports

LSW2000-16T2GP-I

L2 DIN-Rail Industrial Ethernet Switch: 16 FE RJ45 ports and 2 GE SFP ports

LSW2000-8T2SC2GP-I

L2 DIN-Rail Industrial Ethernet Switch: 8 FE RJ45 ports, 2 FE SC ports and 2 GE SFP ports

LSW2000-8T4P2GP2S-I

L2 DIN-Rail Industrial Ethernet Switch: 8 FE RJ45 ports, 4 FE SFP ports, 2 GE SFP ports and 2 RS485 ports

LSW 2000-8T-IW

Unmanaged Industrial Ethernet Switch: 8 FE RJ45 ports

Features**Industrial-Grade Construction**

- Control electro-components selection according to industry standard, including industrial-class chips, industrial-class CPU, industrial-class power modules and pure aluminum shells.

Harsh Environment Compatibility

- Fanless design, -40~85° C operating temperature range, IP40 protection, vibration and shock protection, dual power redundancy, fully compliant with IEC61850 standard.

Advanced Operation System

- DPtech ConPlat OS with high availability, critical data transmission reliability and security guarantee.

Rich Network and Security Features

- Support layer 2 features such as VLAN, STP/RSTP/MSTP, Multicast, Port Mirroring, QoS, port security, etc., also support layer 3 features such as RIP, OSPF, BGP, IPv4/ IPv6 dual stack.

Fast Network Failure Recovery

- FRRP (Fast Ring Recovery Protocol) and FLRP (Fast Link Recovery Protocol) for 20ms end-to-end network failure recovery.

High Accuracy Time Synchronization

- High-accuracy time synchronization such as NTP, SNTP, IEEE 1588v2 PTP, etc.

Easy management

- Support SNMP, WEB and CLI management with default configuration templates, simplifying management and configuration; also support DPtech UMC (Unified Management Center) to provide efficient centralized management for massive devices under unattended environments.

Specification

Item	LSW2000Series
Dimensions (W x D x H)	75mmx163mmx180mm
Weight	1.5KG
Max Power Consumption	12W
Power Requirements	AC:100V-240V
	DC:18V-60V
	Rated Current: 0.5A
Switching Capacity	32Gbps
Port and Slot	LSW2000-8T-I: 8 FE RJ45 ports LSW2000-8T2GP-I: 8 FE RJ45 ports and 2 FE/GE SFP ports LSW2000-16T-I: 16 FE RJ45 ports LSW2000-16T2GP-I: 16 FE RJ45 ports and 2 FE/GE SFP ports LSW2000-8T4P-I: 8 FE RJ45 ports and 4 FE SFP ports LSW2000-8T2SC2GP-I: 8 FE RJ45 Ports, 2 FE Optical ports(SC) and 2 FE/GE SFP ports LSW2000-2T8P-I: 2 FE RJ45 ports and 8 FE SFP ports LSW2000-8T4P2GP2S-I: 8 FE RJ45 Ports,4 FE SFP ports, 2FE/GE SFP ports and 2 RS485 Ports
Operating Environment	Operating Temperature: -40~85°C
	Environment Humidity: 0~95%RH (No Condensation)
	IP40 Protection
	MTBF: More than 30 Years
L2 Features	Support 802.1Q VLAN, IGMP Snooping, STP/RSTP/MSTP, 802.3xTraffic Management , QoS, 8 hardware queues, CAR, port aggregation, and port mirroring
L3 Features	IPv4 routing and IPv6 routing
Security Features	Support storm suppression and broadcast/multicast/unknown unicast constrain
	Support 802.1X authentication and ARP attack prevention
	Support Access Control List (ACL)
Broadcast	Support GMRP, IGMP Snooping

Features	
Management	Support IEEE 1588 PTP V2, SNMP, DHCP Client, DHCP Server, DHCP Relay
	Support SNMP, CLI and Web GUI Management
	Support DPtech Unified Management Center (UMC)
	Support real-time temperature detection and alarms Support local and remote output for system logs, operation logs and debugging information
High Reliability	Support Fast Ring Recovery Protocol, link fault recovery time≤20ms Support Fast Link Recovery Protocol
	Support redundant power supply unit
Standards and Certifications	IEC61850-3 IEC60950(Safety Standard) EN 61000-3-2/EN 61000-3-3 EN55024 (EMC Industry Standard) FCC Part 15 Subpart B Class A, EN 55022 Class A GB/T 21563-2008 BG/T 17626

Item	LSW2000 Series Unmanaged Switch
Ethernet Standard	IEEE 802.3, IEEE 802.3u, IEEE802.3x
Dimensions (W x D x H)	298mm×165mm×44mm
Port and Slot	LSW2000-8T-IW: 8 FE RJ45 ports
Switching Capacity	1.6G
Switching Latency	<1us
Weight	1.5KG
Max Power Consumption	2.4W
Power Requirements	AC:85V-264V, Rated Current: 1A
	DC:12V/24V, Rated Current: 3A
Operating Environment	Operating Temperature:-40~85°C
	Environment Humidity:0~95%RH (No Condensation)
	Fanless, Metal housing and IP40 protection
	MTBF: More than 30 Years
Standards and Certifications	IEC61850-3 IEC60950(Safety Standard) EN 61000-3-2/EN 61000-3-3

EN55024 (EMC Industry Standard)

FCC Part 15 Subpart B Class A, EN 55022 Class A

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