



52-Port SDN/Open Flow Switch, 48 x Gigabit RJ45, 4 x 10GbE SFP+, Redundant power supply

The LevelOne GTD-5271/ GTD-5271T Switches is cost effective high performance switches for SDN/Open flow applications. It is designed based on LevelOne proprietary the latest generation Ethernet switching silicon, embedded Dual-core, ARM A53 processor. also offers AC dual power failover, allowing for continued operation regardless of a single power source failure.

The GTD-5271/ GTD-5271T fully supports Openflow v1.0 to v1.4, provide powerful full-field matching and flexible editing ability, which can be widely used in DCI, security and radio/ television broadcast scenarios. ISPs can expand their services for home to business users by providing a more reliable and resilient network , and advanced OAM (Operations, Administration, and Maintenance) functions to ensure service-level agreements. enabling you to scale your operations to meet business growth, operational cost savings, and ease of management.

Features

Technical highlights

- Standard 1RU pizza-box solution
- Up to 880Gbps switching capacity
- Low power consumption
- Up to 3.5K wildcard match flows with exact match field and stats
- Meter table with up to 1000 meter ID
- Support Group(all/select/indirect/fast failover)
- Support OpenFlow specification 1.0/1.2/1.3/1.4
- Support L2 to L4 exact matching fields
- Support Per flow multiple actions
- Support Hybrid mode(Traditional features + Openflow features)
- Support L2 GRE tunnel/VXLAN tunnel/NVGRE tunnel
- Support MPLS L2 VPN/Flex MPLS
- Support QinQ
- Support Group(all/select/indirect/fast failover)
- Support Queue
- Support Static LAG, LACP
- Support UDF
- Support QoS

- Flow Entries Supports Match Field including Ingress Port 、 Ethernet Source/Destination Address 、 Ethertype 、 IEEE 802.1Q VLAN ID 、 IEEE 802.1Q VLAN PCP 、 ICMPv4_TYPE 、 ICMPv4_CODE 、 IPv4 Source/Destination Address 、 IPv4 Protocol 、 IPv4 DSCP Bits 、 IPv6 Source/Destination Address 、 TCP Source/ Destination Port 、 UDP Source/Destination Port
- Flow Entries supports Action including Output 、 Drop 、 Push(VLAN Tag) 、 POP(VLAN Tag) 、 NORMAL
- Flow Entries supports Set-Field Action including Ethernet Source/Destination Address 、 IEEE 802.1Q VLAN ID 、 IEEE 802.1Q VLAN PCP 、 ARP_OP 、 ICMPv4_TYPE 、 ICMPv4_CODE 、 IPv4 Source/Destination Address 、 IPv4 DSCP Bits 、 IPv6 Source/Destination Address 、 TCP Source/ Destination Port 、 UDP Source/Destination Port
- Flow Entries supports Idle and Hard timeout

1. Basic		
Product Name		GTD-5271/ GTD-5271T
Product Positioning		Data Center TOR access, Enterprise / Metro / HCI (Hyper-Converged Infrastructure) network access or aggregation
Switching Method		Store and Forwarding / Cut Through
Packet Buffer		9MB
CPU Model/ Frequency		SOC(Dual core, ARM A53)
Flash		8GB(eMMC)
Memory		1GB
Hardware Configuration	Main Board Spec	48 x 1GE Base-T Port 4 x 10GE SFP+ Port
	Console Type	RJ45
	Outband Eth Management Port	Support
	Inband Eth Management Port	Support
	USB Ports	Support
2. Performance Spec		
Switching Capacity	Switching Capability	176 Gbps
	Throughput	132 Mpps
	Latency	700ns/fiber port,1.7us/copper port
3. Hardware and Software Description		
Hardware Summary		Standard 1U 19" Rack Mountable 48 x 1GE Base-T Port 4 x 10GE SFP+ Port
Software Upgrade Method		TFTP/FTP
Service interruption time when reboot system for software update		Less Than 120s
4. The Power Supply and Power Requirements		
Type of Power Supply	AC	Support
	DC	Support
Power Supply Range	AC	Operating Voltage: 100 ~ 240V; 50/60Hz Maximum Voltage: 90 ~ 264V; 47~63Hz
	DC	Operating Voltage: -48V ~ -60V
Double Power Input		Support
Power Supply Module Pluggable		Support
Max Power Draw		~100W *

5. Overcurrent and overvoltage protection

Overcurrent/Overvoltage Protection	Yes
Surge Protection Level	2 KV

6. Others

Hardware Size (H×W×D) in.	4.36 x 44.0 x 40.0 cm (1.73 x 17.5 x 15.8 in.) *
Weight (kg)	~5kg (Include 2 Power Modules) *
Cooling Mode	Fan Cooling (Front-to-Rear Airflow)
Quantity of Fans	3
Fan Module Pluggable	Not Support (Fixed Fan)
Fan Module Intelligent Speed Control	Support
Operating Temperature (°C)	0°C - 45°C
Operating Humidity (Non-condensing)	10% to 90%
Storage Temperature (°C)	-40°C to 70°C
Storage Humidity (Non-condensing)	5% to 90%

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