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ZTE ZXR10 5260 Series Switch Datasheet

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ZTE



Product Overview

The ZXR10 5260 Series switch is an all-gigabit L2 pizza-box device designed for enterprise users. It provides up to 52 interfaces (48 GE+ and four 10GE) and various interfaces combinations. With Virtual Switch Clusters (VSC2.0), it delivers improved resilience and flexibility. The ZXR10 5260 Series switch supports IEEE 802.3af Power over Ethernet Plus (PoE) and IEEE 802.3at Power over Ethernet Plus (PoE+) to satisfy most enterprise access scenarios. At the same time, zero-touch provisioning and IEEE 802.3az Energy Efficient Ethernet (EEE) make the network not only easy to maintain but also free to offer lower power consumption.

Product models of the ZXR10 5260 Series switch family:



5260-28PD-H



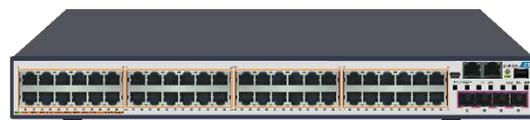
5260-52PD-H

5260-28PD-H: 24 Ethernet 10/100/1000M RJ45 electrical ports (POE/POE+) and four 10GE SFP+ optical ports

5260-52PD-H: 48 Ethernet 10/100/1000M RJ45 electrical ports (POE/POE+) and four 10GE SFP+ optical ports.



5260-28TD-H



5260-52TD-H

5260-28TD-H: 24 Ethernet 10/100/1000M RJ45 electrical ports and four 10GE SFP+ optical ports

5260-52TD-H: 48 Ethernet 10/100/1000M RJ45 electrical ports and four 10GE SFP+ optical ports



Product Features

- **Smart VLAN**

- The ZXR10 5260 series switch not only supports 1:1 VLAN mapping, but also supports N:1 VLAN mapping. VLAN aggregation can be implemented at the access layer to increase the efficiency of VLAN utilization.
- The ZXR10 5260 series switch also supports QinQ and flexible selective QinQ. Network administrators can distinguish users and services effectively and apply different strategies thereafter.
- The ZXR10 5260 series switch supports Voice VLAN and gives voice traffic high priority.

- **Powerful Service Transport**

- By supporting rich L2 switching functions, RIP/OSPF protocols and low-latency forwarding, the ZXR10 5260 series switch can transfer multiple services including WLAN, Internet, Voice, Video and other data services.
- The ZXR10 5260 series switch supports L2 multicast services, including IGMP snooping, filtering, Proxy and fast leave, Multicast VLAN Registration (MVR).
- The ZXR10 5260 series switch employs both general channels and privilege channels to manage IPTV users. With the IPTV control service, operators can prepare different channel access control (CAC) rules for different users.
- The ZXR10 5260 series switch supports IPv6 features such as MLD Snooping and DHCP v6 Snooping to facilitate the IPv6 service deployment.

- **Innovative VSC2.0 Technology**

- The ZXR10 5260 series switch supports the VSC2.0 so as to enlarge cluster system capacity, improve port density, and simplify network topology and management.
- Real-time standby information synchronization between master and backup enables seamless switch-over to fight against network failures, making the network more reliable.



- Stacking bandwidth between the VSC switches can be up to 80Gbps, which removes the bandwidth bottleneck of the VSC and delivers customers a real-time non-blocking VSC system.
- The master and slave VSC work in 1+N redundancy mode. The multiple-active detect (MAD) technology is to detect and avoid dual masters in the VSC system when failures happen. With real-time hot standby and seamless switch-over, the device brings the customer a more flexible VSC network.
- **Flexible POE/POE+**
 - The ZXR10 5260 series switch supports POE and POE+ complying with the 802.3at and 802.3af standards to power remote devices (including IP phones, WLAN APs, and network cameras) through twisted-pair cables.
 - The ZXR10 5260 series switch supports forced power supply and could supply power for PD equipment incompatible with 802.3af and 802.3at standards if needed.
 - The ZXR10 5260 series switch is able to set POE time range. So that,when the power supply is not needed, the POE power of the port can be terminated automatically.
 - The ZXR10 5260 series switch supports PD port power detection and LLDP-MED-based POE power negotiation. If the practical power is bigger than the PSE-distributed power, the power supply will be stopped immediately and corresponding alarms will be sent to the OAM center.
 - The ZXR10 5260 series switch supports display of the PSE power supply status and PD power supply status, for example, running status of the power supply, the power consumption, levels and temperature.
 - The ZXR10 5260 series switch supports automatic termination of providing powerfor new PoE ports when the entire PoE power reaches upper limits.
 - The ZXR10 5260 series switch supports over-temperature protection and recovery.
 - The ZXR10 5260 series switch supports port priorities. So the port with higher priority will be powered on first.



- **Enhanced Reliability and Multi-Dimensional Security**

- The ZXR10 5260 series switch supports ERPS going in line with RFC3619 and ITU.T G.8032 standard, can recover the system from any link or node fault.
- The ZXR10 5260 series switch supports the Smart Group and Link Aggregation Control Protocol (LACP), which can guarantee the reliability of the link connection. It also supports smart group cross two 5260 devices in load sharing mode or backup mode. It can also set local forwarding first to save the connection bandwidth usage.
- The ZXR10 5260 series switch supports various authentication methods such as 802.1x, Radius and TACACS+. It also supports CPU overload protection and anti-DDOS, which delivers the customer a secure network.
- The 802.1x function not only includes MAC authentication bypass, VLAN assignment, guest VLAN, Portal authentication and dynamic ACL assignment, but also enables the authentication of multiple users at different domains over one physical port, which makes the network safe.
- The DHCP snooping and IP source guard are supported to guarantee user validity. The dynamic ARP inspection (DAI) function can effectively fight against ARP attacks.
- The ZXR10 5260 series switch supports MAC forced forwarding (MFF). L2 isolation and L3 intercommunication are provided to enhance the security of the network.
- For user management, the ZXR10 5260 series switch supports both the regular login mode based on usernames and passwords, and some encrypted login patterns like SSH to further eliminate potential risks brought by the username/password .
- The ZXR10 5260 series switch supports not only ingress ACLs, but also egress ACLs. Users can implement incoming and outgoing traffic classification and speed restriction at the same time. This mechanism enables the customer to greatly simplify the configuration and perform more refined control in some scenarios.

- **Easy Maintenance**

- The ZXR10 5260 series switch supports zero configuration. When powered on, the equipment will automatically get its own software version and images.



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- The ZXR10 5260 series switch supports alarming, which can help the operation staff make quick judgment and accelerate failure processing.
- The ZXR10 5260 series switch supports Ethernet OAM such as IEEE 802.3ah to monitor network real-time operating status and implement fast fault detection localization
- **Low OPEX, Green for More**
 - The ZXR10 5260 series switch supports IEEE 802.3az EEE (Energy Efficient Ethernet). Via chip-grade management of power dissipation, smart variable-frequency adjustment in term of system voltage, chips and software can be implemented to cut down the power consumption of a single port at idle mode by 70%.
 - The fan speed can be automatically adjusted in accordance with the temperature inside the switch. It not only saves the power consumption, but also reduces the noise and extends the life cycle of the fan.
 - Complying with ROHS, WEEE and ISO14001 standards, there's no plumbum (Pb) existing in either product materials or any techniques used in the whole process.. Besides, the ZXR10 5260 also unveils its eco-friendly features by using recyclable and degradable packing materials.

System Specification

Items	5260-28TD-H	5260-52TD-H	5260-28PD-H	5260-52PD-H
Dimensions (H*W*D)	43.6mm*442mm*220mm		43.6mm*442mm*440mm	
Fixed Ports	24 GE RJ45 +4 10GE SFP+	48 GE RJ45 +4 10GE SFP+	24 GE RJ45 (POE/POE+) +4 10GE SFP+	48 GE RJ45 (POE/POE+) +4 10GE SFP+
Weight	< 2.6 kg	< 2.9 kg	< 7.1kg	< 7.6kg
Management Port	1 GE MNG, 1RJ45 Console and 1 Mini USB Console			
AC Power Supply	Rated voltages: 100V~240V, 50Hz~60Hz			
Max Power Consumption	<35W	<55W	<780W (POE:720W)	<1,040W (POE:960W)





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Items	5260-28TD-H	5260-52TD-H	5260-28PD-H	5260-52PD-H
Power Redundancy	One inside AC power module + RPS		Two independent swappable AC power supply modules	
Working Temperature	Long-term working temperature: -10 °C-+55 °C Short-term working temperature: -15 °C-+60 °C			
Working Humidity	5%-95%			
Working Altitude	<5000 meters			
MTBF/MTTR	>250,000 hours/ < 30 minutes			
MAC Table	16k			
Jumbo Frames	10k			
Switching Capacity	256Gbps	256Gbps	256Gbps	256Gbps
Packet Forwarding Rate	96Mpps	132Mpps	96Mpps	132Mpps

Service Specification

Function	The ZXR10 5260 series switch
L2 Features	<ul style="list-style-type: none"> Supporting IEEE 802.1p (COS), IEEE 802.1q (VLAN) and IEEE 802.3x Supporting IEEE 802.1d (STP), 802.1w (RSTP) and 802.1s (MSTP)/EVST Supporting IEEE 802.3ad (LACP) and Static Trunk Supporting IEEE 802.3u(100Base-T), 802.3z (1000Base-X) and 802.3ab (1000BaseT) Supporting IEEE 802.3ae (10Gbase) Supporting port-based VLAN, MAC-based VLAN and Voice VLAN Supporting QinQ, and Selective QinQ Supporting PVLAN Supporting port mirroring and traffic mirroring Supporting GVRP Supporting LLDP Supporting UDLD Supporting MAC binding and converting Supporting MAC filtering and dynamic MAC learning Supporting broadcast storm suppression



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Function	The ZXR10 5260 series switch
	<ul style="list-style-type: none"> Supporting line diagnosis analysis and test Supporting port loopback check Supporting MFF
L3 Features	<ul style="list-style-type: none"> Supporting IPv4 Static routing, RIP and OSPF Supporting DHCP Snooping, DHCP Relay and DHCP Option82 Supporting DHCPv6 Snooping and DHCPv6 Relay
Multicast	<ul style="list-style-type: none"> Supporting IGMPv1/v2/v3 snooping Supporting channel access control (CAC) and Multicast VLAN Registration (MVR) Supporting MVR Supporting MLD Snooping
QoS	<ul style="list-style-type: none"> Supporting traffic classification based on L 2 headers, L 3 protocols, L 4 protocols, and 802.1p priority Supporting 8 hardware-based queues per port Supporting queue scheduling algorithms, such as SP, WRR and SP+WRR Supporting congestion avoidance mechanisms, such as tail drop Supporting port-based traffic policing/shaping
PoE	<ul style="list-style-type: none"> Supporting POE (IEEE 802.3 af) Supporting POE+ (IEEE 802.3 at)
Security	<ul style="list-style-type: none"> Supporting standard ACL, VLAN ACL, Link ACL, extended ACL, mixed ACL and IPv6 ACL Supporting time-range ACL configuration and bidirectional ACL Supporting 802.1x authentication and 802.1x server Supporting MAC authentication and portal authentication Supporting AAA/ RADIUS and TACACS+ authentication for login users Supporting SSHv2 Supporting CPU-based anti-attack services Supporting STP Root guard, BPDU guard and IP source guard
Reliability	<ul style="list-style-type: none"> Supporting redundancy power supply Supporting hot plugging Supporting LACP Supporting MC-LAG Supporting Ethernet Ring Protection Switching (ERPS)

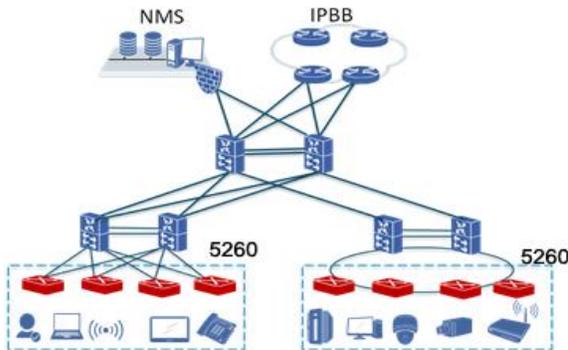


Function	The ZXR10 5260 series switch
	Supporting ZTE Ethernet Switch Ring (ZESR/ZESR+) Supporting LLDP and LLDP-MED
Equipment Management	Supporting CLI, Telnet, SSHv2, local and remote (RADIUS/TACACS+) user authentication Supporting out-band management interface Supporting SNMP v1/v2/v3 Supporting mirroring and RSPAN Supporting RMON Supporting WEB management Supporting NTP Supporting FTP/TFTP/SFTP Supporting Syslog and Sflow Supporting zero configuration and fast in-batch inspection tools Supporting Dying gasp power-off alarming
Enhanced Features	Supporting Virtual Switch Clusters (VSC) Supporting zero-touch deployment

Application Scenario

- **Accessing Enterprise Campus Network**

The ZXR10 5260 series switch supports various L2 features, VSC2.0 and POE/POE+, so it can be applied in multiple scenarios including the campus access and GE to desktop scenarios. In the following figure, the ZXR10 5260 serves a campus network as an access switch.





Order Information

Mainframe

5260-28PD-H	5260-28PD-H Switch (POE/POE+)
5260-28TD-H	5260-28TD-H Switch
5260-52PD-H	5260-52PD-H Switch (POE/POE+)
5260-52TD-H	5260-52TD-H

Power Module

52-PWR-AC50	5260-PD-H AC Power Module
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Fan Module

52-FAN	5260 Fan Module
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