

IS230 (E1) Series L2 Management Access Switch Datasheet

Product Overview

IS230(E1) Series L2 gigabit management access switch is developed for the Enterprise and SMB market. It provides the stable, reliable and secure high-performance switching service for high-speed internet. IS230 series provides the perfect solutions in the aspects of multi-service capability, security, reliability, management and maintenance. IS230 series can provide the low-cost, high-performance, and easy-management solutions for the enterprise network access.

IS230(E1) series switch includes IS230-10TF-AC(E1), IS230-10TP-AC(E1), IS230-28TF-AC(E1), IS230-28TF-AC(E1) Four models.

Model Name	Specification
IS230-10TF-AC(E1)	 8*10/100/1000M Base-T + 2*1G SFP RJ45 Console Port Switching Capacity: 20Gbps Reset Button Fanless
IS230-10TP-AC(E1)	 8*10/100/1000M Base-T + 2*1G SFP RJ45 Console Port 140W PoE&PoE+ Switching Capacity: 20Gbps Reset Button Fanless
IS230-28TF-AC(E1)	 24*10/100/1000M Base-T + 4*1G SFP RJ45 Console Port Switching Capacity: 56Gbps Reset Button Fanless
IS230-28TP-AC(E1)	 24*10/100/1000M Base-T + 4*1G SFP RJ45 Console Port 380W PoE&PoE+ Switching Capacity: 56Gbps Reset Button Fanless

Key Features

Flexible Network Adaptability

The IS230 Series switches supports line-rate forwarding on all ports, providing greater network flexibility. Whether in small office networks or large-scale enterprise networks, this feature ensures data can be forwarded rapidly and efficiently, avoiding network transmission bottlenecks and delivering excellent network adaptability.

High availability

The IS230 series switch offers advanced redundancy and reliability features, catering to diverse networking requirements. In addition to supporting traditional spanning tree protocols such as STP, RSTP, and MSTP, the switch also complies with the ITU-T G.8032 international standard. This Ethernet Ring Protection Switching (ERPS) protocol enables rapid failover within Ethernet ring network topologies, ensuring seamless connectivity and minimal downtime.

High Security

The IS230 series switch offers a comprehensive suite of security features, including user authentication, port security, ACLs, loopback detection, and 802.1X authentication. It also incorporates IP Source Guard, DHCP Snooping, Dynamic ARP Inspection, and PPPoE+ security mechanisms. These robust security functions ensure user access and network protection. Additionally, the switch supports MAC binding, 802.1X authentication, and countermeasures against network storm, ARP, and protocol packet attacks. This makes the IS230 series ideal for access networks.

Advanced QoS

The IS230 series switch offers sophisticated QoS capabilities for optimal network performance. Supporting eight queues per port and advanced scheduling algorithms such as SP, WRR, WFQ, SP+WRR and SP+WFQ, the switch effectively manages traffic prioritization and resource allocation. The switch accommodates diverse priority mapping techniques, including 802.1p and DSCP, enabling fine-grained control over traffic classification and prioritization.

Zero Touch Provisioning

The IS230 series switch features advanced Zero Touch Provisioning (ZTP) capabilities, streamlining the deployment process for network administrators. With ZTP, the switch can automatically discover and load necessary version files from a file server via a DHCP server, eliminating the need for manual intervention during initial setup. This automation reduces configuration errors, accelerates the deployment process, and enhances overall network efficiency, making the IS230 series switch an ideal choice for scalable and dynamic network environments.

Rich Network Management

The IS230 series switch offers a comprehensive set of management options. These options encompass network management protocols like SNMP, configuration and control options like web and CLI, monitoring and diagnostic tools such as RMON and SYSLOG. These versatile features enable network administrators to effectively manage, monitor, and maintain optimal network performance locally.

Technical Specifications

Model	IS230-10TF-AC	IS230-10TP-AC	IS230-28TF-AC	IS230-28TP-AC	
Hardware Version	E1	E1	E1	E1	
Physical Traffic Port	8*10/100/1000M Base-T interfaces 2*1G SFP interfaces	8*10/100/1000M Base-T interfaces 2*1G SFP interfaces	24*10/100/1000M Base- T interfaces 4*1G SFP interfaces	24*10/100/1000M Base- T interfaces 4*1G SFP interfaces	
Switching Capability	20Gbps	20Gbps	56Gbps	56Gbps	
Management Port	1* RJ45 Console Port	1* RJ45 Console Port	1* RJ45 Console Port	1* RJ45 Console Port	
Fixed Power Supply	One	One	One	One	
Max PoE Power Consumption	NA	140W	NA	380W	
PoE Standard	NA	IEEE 802.af/at	NA	IEEE 802.af/at	
Power Consumption (Without PoE)	≤8W	≤10W	≤20W	≤30W	
Dimension (W×D×H)mm	280×180×44.2	280×180×44.2	440×208×44.2	440×208×44.2	
Input Voltage	AC:100-240V/50-60Hz				
Temperature	Work Temperature: -5°C to 50°C Storage Temperature: -40°C to 70°C				
Humidity	Work Humidity: $10\% \sim 90\%$, non-condensing Storage Humidity: $5\% \sim 95\%$, non-condensing				
Anti-Lightning	4KV				
Anti-Static	4KV				
MTBF	>10000 hours				
Software Specificat	tion				
	Basic Port Configuration	Auto MDI/MDIX, Port Speed, Port Duplex, Port MTU(Jumbo Frame), Portisolation			
Port	MAC Address Management	MAC Address Aging Time, MAC Address Learning ON OFF, MAC Address Learning Limitation, Static MAC Address, MAC Address Filter			
	Storm Control	m Control Storm-control for BUM, Shutdown-control for BUM			
VLAN	VLAN Management	VLAN, VLAN PVID, VLAN Trunk, VLAN Hybrid, VLAN Interface, MAC VLAN, Protocol VLAN, IP Subnet VLAN, Voice VLAN, Private VLAN, GVRP, Basic QinQ, Selective QinQ, 802.1ad, VLAN Mapping			
Ring Protection	Spanning Tree Protocols	STP/RSTP/MSTP, BPDU Guard, BPDU Filter, Flap Guard, Loop Guard, Root Guard, TC Guard, BPDU L2 Protocol Tunnel			
	Other Ring Protocols	er Ring Protocols G.8032(ERPS)			
Link Aggregation	LACP Configuration	LACP Link Aggregation, LACP Port Priority, LACP Load Balance			
Error Handling	Error-disable Configuration	Error-disable Based on BPDU-guard Loopback-detect Port Security, Error-disable Recovery			
Fault Detection	Detection Features	UDLD, Loop-back Detection, CFM, Monitor Link(MTLK)			
IP Services	IP Protocol	ARP, DNS Client, SNTP Client, ICMP, IPv6, IPv6 ND/SLAAC			

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	Routing Protocol	Static Routing v4/v6 for Management		
	DHCP Service	DHCP Relay/Client, DHCP Snooping, DHCP Snooping Option82		
Multicast Protocols	L2 Multicast Protocols	IGMPv1/v2/v3 Snooping, Fast Leave, IGMP Snooping Querier, IGMP Filter, Static Group, MLD Snooping, MVR		
QoS	Flow Classification	802.1P Priority, DSCP Priority, VLAN ID, MAC Prefix, IP Subnet, Protocol, IP Precedence, IPv6 Traffic Class, Ethernet Type		
	Rate Limit	Rate Limit, Port-based Bandwidth		
	Scheduling Algorithm	Port-based Priority, SP, WRR, WFQ, SP+WRR, SP+WFQ		
Security	Port Security	Rule Based On IP/MAC/MAX/Sticky, Violation(Protect/Restrict/Shutdown), Recovery		
	Access Control List	Standard IP ACL, Extended IP ACL, Standard MAC ACL, Extended MAC ACL, Standard Hybrid ACL, Extended Hybrid ACL, Standard IPv6 ACL, Extended IPv6 ACL, Time-based ACL		
	AAA	Local Authentication, Radius(Authentication, User Login Authorization, User Login Accounting), TACACS+(Authentication, User Login Authorization, Command Authorization, User Login Accounting, Command Accounting)		
	802.1X	Port-based 802.1X, MAC-based 802.1X, MAC-Authentication, Guest-VLAN, VLAN Distribution (Auto-VLAN), ACL Distribution		
Configuration and Maintenance	Monitoring and Diagnostics	1:1 SPAN, N:1 SPAN, RSPAN, Flow-based Mirror, Ping, Tracert, DDM, VCT		
	Device Management	SNMP v1/v2/v3, SNMP Trap, RMON, SYSLOG (Logging to Terminal/Logging to Server/CLI Operation to Server), LLDP, WEB(HTTP), Console, Telnet, SSH, System Upgrade (TFTP/FTP/SFTP/WEB), Configuration Management (Backup/Restore), Factory Reset, Password Reset		
	Zero Touch Provisioning	ZTP Through DHCP Server		
IEEE Standard	IEEE 802.3 (10BASE-T) IEEE 802.3u (100BASE-X) IEEE 802.3z (1000BASE-X) IEEE 802.1ag (Connectivity Fault Management) IEEE 802.3ah (Ethernet in the First Mile Operations, Administration, and Maintenance) IEEE 802.1x (Port-Based Network Access Control) IEEE 802.3ad (Link Aggregation) IEEE 802.3x (Flow Control) IEEE 802.1p (Class of Service Priority) IEEE 802.1Q (Virtual LAN) IEEE 802.1d (Double Tagged) IEEE 802.1d (Spanning Tree Protocol) IEEE 802.1v (Rapid Spanning Tree Protocol) IEEE 802.1s (Multiple Spanning Tree Protocol)			

Order Information

Model		Description			
IS230 Series Host					
IS230 Series	IS230-10TF-AC	E1 Version: 8-Port 10/100/1000M Base-T interfaces, 2-Port 1G SFP interfaces, Single AC Power			
	IS230-10TP-AC	E1 Version: 8-Port 10/100/1000M Base-T interfaces, 2-Port 1G SFP interfaces, 150W PoE&PoE+, Single AC Power			
	IS230-28TF-AC	E1 Version: 24-Port 10/100/1000M Base-T interfaces, 4-Port 1G SFP interfaces, Single AC Power			
	IS230-28TP-AC	E1 Version: 24-Port 10/100/1000M Base-T interfaces, 4-Port 1G SFP interfaces, 380W PoE&PoE+, Single AC Power			

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