

IS5600 Series Layer3 Industrial Ethernet Switch



IS5600E-28M/ IS5600G-28M

Product Overview

IS5600 series modular gigabit industrial ethernet switch supports comprehensive Layer 2/3 protocols. It provides an internal ring redundant mechanism which can be an ideal choice for aggregation layer within factory automation and process control applications.

Main Features

- Non block full speed Layer2/3 forward
- Multiple Ethernet rate interfaces
- Ring redundant capability to provide network recovery.
- Combined with SNMP management software to provide comprehensive network management functionality.

Specifications

Attributes	IS5600		
Technology			
	IEEE 802.3u for 100BaseT(X) and 100BaseFX		
Standards	IEEE 802.3ab for 1000BaseT(X)		
	IEEE 802.3z for 1000BaseX		
	IEEE 802.3x for Flow Control		
	IEEE 802.1D-2004 for Spanning Tree Protocol		
	IEEE 802.1w for Rapid STP		
	IEEE 802.1s for Multiple Spanning Tree Protocol		
	IEEE 802.1Q for VLAN Tagging		
	IEEE 802.1p for Class of Service		
	IEEE 802.1X for Authentication		
	IEEE 802.3ad for Port Trunk with LACP		
	Performance		

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10Mbps:148800pps Forwarding Rate 100Mbps:148800pps 100Mbps:1488000pps Switching Capacity IS5600E-28M: 12.8Gbps IGMP groups 4K MAC Table Size 16K VLAN number available 4K Priority Queues 8 Buffer size 3X Jumbo Frame 12K bytes Fixed Ports IS5600E-28M 4 * 10/100/1000 Combo Ports 3 Extended Slots Fixed Ports IS5600E-28M 4 * 10/100/1000 Combo Ports Fixed Ports IS5600E-28M 4 * 10/100/1000 Combo Ports Stended Slots 3 Extended Slots 3 Extended Slots Fixed Ports IS5600E-28M 4 * 10/100/1000 Combo Ports 3 Extended Slots Extended module IS5600E-28M 8-port 10/100TX module with RJ-45 connector B-port Gigabit SFP module 4-port 10/00hps multi/single mode fiber module with SC/ST connector IS5600G-28M 8-port Gigabit SFP module 4-port Gigabit SFP module 4-port Gigabit SFP module Management Port Console			۱
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Jumbo Frame 12K bytes Ports Ports Fixed Ports IS5600E-28M 4 * 10/100/1000 Combo Ports 3 Extended Slots Fixed Ports IS5600G-28M 4 * 10/100/1000 Combo Ports 3 Extended Slots Seport 10/100TX module with RJ-45 connector 8-port 10/100TX module with RJ-45 connector Extended module IS5600E-28M 8-port 100Mbps SFP module 4-port 100Mbps multi/single mode fiber module with SC/ST connector Extended module IS5600G-28M 8-port 000Mbps multi/single mode fiber module with SC/ST connector IS5600G-28M 8-port 10/100/1000T module with RJ-45 connector Management Port Console	Buffer size	3	32M
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IS5600G-28M 4 * 10/100/1000 Combo Ports 3 Extended Slots IS5600E-28M 8-port 10/100TX module with RJ-45 connector B-port 100Mbps SFP module 4-port 100Mbps SFP module 4 * port 100Mbps SFP module 4-port 100Mbps SFP module IS5600E-28M 8-port 10/100T module with SC/ST connector IS5600G-28M 8-port 10/100/1000T module with RJ-45 connector IS5600G-28M 8-port 10/100/1000T module with RJ-45 connector IS5600G-28M 8-port Gigabit SFP module Management Port Console	Fixed Ports	1330002-2010	3 Extended Slots
Extended module RJ-45 connector Extended module 4-port 100Mbps SFP module IS5600E-28M 4-port 100Mbps multi/single mode fiber module with SC/ST connector s-port 10/100/1000T module with RJ-45 connector IS5600G-28M 8-port Gigabit SFP module 4-port 100Mbps multi/single mode fiber module with SC/ST IS5600G-28M 8-port Gigabit SFP module 4-port 1000Mbps multi/single mode fiber module with SC/ST Management Port Console	Fixed Folis	IS5600G-28M	
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Extended module mode fiber module with SC/ST Extended module 8-port 10/100/1000T module IS5600G-28M 8-port Gigabit SFP module IS5600G-28M 4-port Gigabit SFP module 4-port 1000Mbps multi/single mode fiber module with SC/ST Management Port Console			
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Extended module 8-port 10/100/1000T module IS5600G-28M 8-port Gigabit SFP module 4-port Gigabit SFP module 4-port 1000Mbps multi/single mode fiber module with SC/ST connector Management Port Console	Extended module		
IS5600G-28M with RJ-45 connector 8-port Gigabit SFP module 4-port 1000Mbps multi/single mode fiber module with SC/ST Connector		IS5600G-28M	
IS5600G-28M 4-port 1000Mbps multi/single mode fiber module with SC/ST connector Management Port Console			
4-port 1000Mbps multi/single mode fiber module with SC/ST connector Management Port			8-port Gigabit SFP module
Management Port Console			4-port 1000Mbps multi/single
Management Port Console			
	Management Port	Console	
LED Light POWER, Management Status, Link/Active and Transceiver	LED Light	POWER, Management Status, Link/Active and Transceiver	
Port Trunk Support IEEE802.3ad, LACP	Port Trunk	Support IEEE802.3ad, LACP	
Port Mirroring Port monitor 1:1, n:1	Port Mirroring	Port monitor 1:1, n:1	
Bandwidth Control Steps 64kbps	Bandwidth Control	Steps 64kbps	
Storm Control Support Broadcast / Multicast / Unicast Storm Control	Storm Control	Support Broadcast / Multicast / Unicast Storm Control	

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	Support set forwarding rate as packets			
F	Port Protection	Support MAC binding , MAC address filter, MAC limit		
	VCT&DDM	V	СТ	
Por	t Loop Detection	Sup	oport	
	Port Isolation	Sup	oport	
		Main feature		
Fo	Forwarding Mode Storage and Forwarding		d Forwarding	
		Port-based VLAN		
		Support IEEE 802.10	Q, up to 4094 VLANs	
		MAC-bas	sed VLAN	
	VLAN	Protocol-ba	ased VLAN	
		Private	e VLAN	
			/RP	
		Normal QinQ,	selective QinQ	
DHCP		IPv4/IPv6 DHCP Client	,IPv4/IPv6 DHCP Relay	
		Option 82,0	Option 37/38	
		IPv4/IPv6 DHCP Snoopin	g, IPv4/IPv6 DHCP Server	
Route		Route protocol	Staic route, RIPv1/v2 OSPFv2	
		Layer 3 Host tables	4k	
		Route forwarding	16k	
		Route Redundancy	VRRP	
		Muliticast	PIM-SM	
Spanning Tree		802.1D STP, 802.1W RSTP, 802.1S MSTP		
		Root Guard, BPDU Guard, BPDU Forwarding		
Reliability	LACP	LACP Support		
		Load balance		
L2 Ring Protection		Ring protection protocol (ERPS)		
Security				
		IP ACL, MAC ACL, MAC-IP ACL, User-Defined ACL		
		Time Range ACL		
		Port Security, MAC Limit based on VLAN and Port		
		Anti-ARP-Spoofing , Anti-ARP-Scan, ARP Binding ND Snooping		
		DAI		
		IEEE 802.1x, MAB (MAC based authentication)		
		Authentication, Authorization, Accounting		

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	Radius, TACACS+	
	IGMP v1/v2/v3 snooping, IGMP Fast leave	
	MVR	
Multicast	IGMP packet filtering	
	Multicast control	
	MLD v1/v2 snooping	
	8 Queues	
	Bandwidth Control	
	Flow Redirect	
	Classification based on ACL, VLAN ID, COS, TOS, DSCP, IPv6	
QoS	Flow Label	
	Policing Based on Port and VLAN	
	Single Rate Dual Colors	
	Remark COS/802.1p, IP Precedence, DSCP, TOS	
	SP, WRR, SP+WRR for scheduling	
	TFTP	
	CLI, Telnet, Console, SSH (IPv4/IPv6)	
	Web/SSL (IPv4/IPv6)	
	SNMPv1/v2c/v3	
	Public & Private MIB interface	
	RMON 1,2,3,9	
	Ping, Trace Route	
Maintenance and Operation	Radius Authentication	
Management	Syslog (IPv4/IPv6)	
	SNTP/NTP (IPv4/IPv6)	
	Dual IMG, Multiple Configuration Files	
	Port Mirror, CPU Mirror	
	OAM 802.3ah	
	VCT, DDM	
	ULDP(like Cisco UDLD)	
	LLDP/LLDP MED	
Green Energy	Fanless design	
Hardware Specs		
Dimension(W x D x H)	440mm x 300mm x 44mm (WxDxH)	
Weight	<4kg	
Installation	Industry standard rack or arbitrary plane installation	
Others	Fanless design IP40 protection	
Electrical Performance		

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Input Voltage	85~265V AC/DC	
Power Consumption	IS5600E-28M: <30Watts	
	IS5600G-28M: <60Watts	
Working Environment		
Working Temperature	-40 to 75 °C	
Storage Temperature	-45 to 85 ℃	
Relative Humidity	0% ~ 95%, Non-condensing	
Redundancy		
	Support Ring Protection, <50ms	
Network Redundancy	Support single, dual and tangent ring	
	Support STP/RSTP/MSTP	
Port Redundancy	Support Port Trunk	
	Ring protection protocol(ERPS)	

Ordering Information

Product Name	Description
	19" rack Industrial L3 Managed Switch up to 4 giga+24*100M ports, AC/DC
IS5600E-28M	power, Redundant power supported, Default with 4* Combo (GbE/SFP), support
	3 Slots for 100M cards
	19" rack Industrial L3 Managed Switch up to 28 Giga ports, AC/DC power,
IS5600G-28M	Redundant power supported, Default with 4* Combo (GbE/SFP), support 3 Slots
	for Gigabit cards
ISME-8TX	Module cards for IS3600E/IS5600E, 8*10/100Base-T
ISME-4TX4FX	Module cards for IS3600E/IS5600E, 4*10/100Base-T + 4*100M SFP
ISME-8FX	Module cards for IS3600E/IS5600E, 8*100M SFP
ISMG-8GT	Module cards for IS3600G/IS5600G, 8*10/100/1000Base-T
ISMG-4GX	Module cards for IS3600G/IS5600G, 4*Combo (GbE/SFP)
ISMG-8GF	Module cards for IS3600G/IS5600G, 8*100/1000Base-X(SFP)

Contact us

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