IS3600 Series Layer2 Industrial Ethernet Switch

IS3600E-28M/ IS3600G-28M

Product Overview

IS3600 series modular gigabit industrial ethernet switch supports comprehensive Layer 2 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 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	IS3600
Technology	
Standards	IEEE 802.3u for 100BaseT(X) and 100BaseFX 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	

Forwarding Rate	10Mbps:14880pps 100Mbps:148800pps 1000Mbps:1488000pps	
Switching Capacity	IS3600E-28M: 12.8Gbps IS3600G-28M: 56Gbps	
IGMP groups	4K	
MAC Table Size	IS3600E-28M: 8K IS3600G-28M: 16K	
VLAN number available	4K	
Priority Queues	8	
Buffer size	32M	
ACL rules	1K	
Jumbo Frame	2048 bytes	
Ports		
Fixed Ports	IS3600E-28M	4 * 10/100/1000 Combo Ports 3 Extended Slots
	IS3600G-28M	4 * 10/100/1000 Combo Ports 3 Extended Slots
Extended module	IS3600E-28M	8-port 10/100TX module with RJ-45 connector
		8-port 100Mbps SFP module
		4-port 100Mbps multi/single mode fiber module with SC/ST connector
	IS3600G-28M	8-port 10/100/1000T module with RJ-45 connector
		8-port Gigabit SFP module
		4-port 1000Mbps multi/single mode fiber module with SC/ST connector
Management Port	Console	
LED Light	POWER, Management Status, Link/Active and Transceiver	
Port Trunk	Support IEEE802.3ad, LACP	
Port Mirroring	Port monitor 1:1, n:1	
Bandwidth Control	Steps 64kbps	

Storm Control		Support Broadcast / Multicast / Unicast Storm Control Support set forwarding rate as packets
Port Protection		Support MAC binding , MAC address filter, MAC limit
VCT&DDM		VCT
Port Loop Detection		Support
Port Isolation		Support
Main feature		
Forwarding Mode		Storage and Forwarding
VLAN		Port-based VLAN Support IEEE 802.1Q, up to 4094 VLANs MAC-based VLAN Protocol-based VLAN Private VLAN GVRP Normal QinQ, selective QinQ
DHCP		IPv4/IPv6 DHCP Client,IPv4/IPv6 DHCP Relay Option 82,Option 37/38 IPv4/IPv6 DHCP Snooping, IPv4/IPv6 DHCP Server
Reliability	Spanning Tree	802.1D STP, 802.1W RSTP, 802.1S MSTP Root Guard, BPDU Guard, BPDU Forwarding
	LACP	LACP Support Load balance
	L2 Ring Protection	Ring protection protocol (ERPS) Loopback Detection
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 Radius, TACACS+
Multicast		IGMP v1/v2/v3 snooping, IGMP Fast leave MVR IGMP packet filtering Multicast control MLD v1/v2 snooping

QoS	8 Queues
	Bandwidth Control
	Flow Redirect
	Classification based on ACL, VLAN ID, COS, TOS, DSCP, IPv6
	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
Maintenance and Operation Management	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
	Radius Authentication
	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 (W×D×H)
Weight	<4kg
Installation	Industry standard rack or arbitrary plane installation
Others	Fanless IP40 protection
Electrical Performance	
Input Voltage	85~265V AC/DC
Power Consumption	IS3600E-28M: <30Watts
	IS3600G-28M: <60Watts
Working Environment	
Working Temperature	-40 to 80 ℃

Storage Temperature	-45 to 85 ℃
Relative Humidity	0% ~ 95%, Non-condensing
Redundancy	
Network Redundancy	Support Super-me Ring Protection, <50ms Support single, dual and tangent ring Support STP/RSTP
Port Redundancy	Support Port Trunk Ring protection protocol(ERPS)
Standard and Certification	
ISO	ISO9001:2008
EMI	FCC Part 15 (Class A), EN55022 (CISPR22 Class A), EN55024 (Class A), CE, EN50121-3-2, EN50121-4 IEC61850
EMC	EN61000-4-2, EN61000-4-3, EN61000-4-4 EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-12
Safety	EN60950, UL508/cUL508, UL1604/cUL1604

Ordering Information

Product Name	Description
IS3600E-28M	19" rack Industrial L2+ Managed Switch up to 4 giga+24*100M ports, AC/DC power, Redundant power supported, Default with 4* Combo (GbE/SFP), support 3 Slots for 100M cards
IS3600G-28M	19" rack Industrial L2+ Managed Switch up to 28 Giga ports, AC/DC power, 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

For more detail information about DCN product, contact:

URL: http://www.DCNglobal.com

Email: sales@DCNglobal.com

Address: Digital Technology Plaza, NO.9 Shangdi 9th Street, Haidian District, Beijing, China