CTC union
Communication exTension Conversion

Product Comparison - Industrial PoE Switch

ISO 9001 ISO 14001

Specification \ Model		ITP-G802SM-8PH24	ITP-G800M-8PH24	ITP-802GSM-8PH24	ITP-802GTM-8PH24	ITP-800M-8PH24	IGS-803SM-8PH24	IGS-402SM-4PH24	IFS-803GSM-8PH24	IFS-402GSM-4PH24
		IP67 WaterProof	IP67 WaterProof	IP67 WaterProof	IP67 WaterProof	IP67 WaterProof				
HW interface										
Uplink port		2x 100/1000Base-X SFP		2x 100/1000Base-X SFP	2x 10/100/1000Base-T M12		3x 100/1000Base-X SFP	2x 100/1000Base-X SFP	3x 100/1000Base-X SFP	2x 100/1000Base-X SFP
UTP LAN port		8x 10/100/1000Base-T M12	8x 10/100/1000Base-T M12	8x 10/100Base-TX M12	8x 10/100Base-TX M12	8x 10/100Base-TX M12	8x 10/100/1000Base-T RJ45	4x 10/100/1000Base-T RJ45	8x 10/100Base-TX RJ45	4x 10/100Base-TX RJ45
Console port		M12x 1 (RS-232)	M12x 1 (RS-232)	M12x 1 (RS-232)	M12x 1 (RS-232)	M12x 1 (RS-232)	RJ45x 1 (RS-232)	RJ45x 1 (RS-232)	RJ45x 1 (RS-232)	RJ45x 1 (RS-232)
HW specification & performance										
Power module		DC (24/48VDC)	DC (24/48VDC)	DC (24/48VDC)	DC (24/48VDC)	DC (24/48VDC)	DC (24/48VDC)	DC (24/48VDC)	DC (24/48VDC)	DC (24/48VDC)
Power supply type		Redundant power	Redundant power	Redundant power	Redundant power	Redundant power	Redundant power	Redundant power	Redundant power	Redundant power
Switching fabric capacity		20Gbps	16 Gbps	5.6 Gbps	5.6 Gbps	1.6 Gbps	22Gbps	12Gbps	7.6Gbps	4.8Gbps
Packet buffer		2M Bits	2M Bits	2M Bits	2M Bits	2M Bits	2M Bits	2M Bits	2M Bits	2M Bits
MAC address table size		8K	8K	8K	8K	8K	8K	8K	8K	8K
Jumbo frame size		9.6 Bytes	9.6 Bytes	9.6 Bytes	9.6 Bytes	9.6 Bytes	9.6 Bytes	9.6 Bytes	9.6 Bytes	9.6 Bytes
Dimension (D x W x H)		70x240x168 mm	70x240x168 mm	70x240x168 mm	70x240x168 mm	70x240x168 mm	106x 72x 152 mm	106x 62.5x 135 mm	106x 72x 152 mm	106x 62.5x 135 mm
Housing	**Protection**	IP67	IP67	IP67	IP67	IP67	IP30	IP30	IP30	IP30
	Fan less	V	V	V	V	V	V	V	V	V
Installation type	**Din Rail**	Optional	Optional	Optional	Optional	Optional	V	V	V	V
	Wall Mount	V	V	V	V	V	V	V	V	V
Operating temperature		-40 ~ 75 C	-40 ~ 75 C	-40 ~ 75 C	-40 ~ 75 C	-40 ~ 75 C	-40 ~ 75 C	-40 ~ 75 C	-40 ~ 75 C	-40 ~ 75 C
Operating humidity		5% ~ 95% (non-condensing)	5% ~ 95% (non-condensing)	5% ~ 95% (non-condensing)	5% ~ 95% (non-condensing)	5% ~ 95% (non-condensing)	5% ~ 95% (non-condensing)	5% ~ 95% (non-condensing)	5% ~ 95% (non-condensing)	5% ~ 95% (non-condensing)
Power comsumption		< 200W (With PoE)	< 200W (With PoE)	< 200W (With PoE)	< 200W (With PoE)	< 200W (With PoE)	<200W	<136W	<200W	<135W
Certification										
EMC	**CE**	V	V	V	V	V	V	V	V	V
EMI	**FCC**	V	V	V	V	V	V	V	V	V
Rail way	**EN50121-4**	V	V	V	V	V	V	V	V	V
Rail way (Vehicle)	**EN50155**	V	V	V	V	V				
Heavy industrial Environment	**EN61000-6-2, EN61000-6-4**	V	V	V	V	V	V	V	V	V
Safty	**UL60950-1**	V	V	V	V	V	V	V	V	V
PoE feature										
IEEE 802.3af/802.3at PoE/PSE compliance		V	V	V	V	V	V	V	V	V
PoE port		8	8	8	8	8	8	4	8	4
PoE power budget (watt)		180	180	180	180	180	180	120	180	120
PoE PD Auto test, and auto reset when PD failure		V	V	V	V	V	V	V	V	V
Weekly scheduleing		V	V	V	V	V	V	V	V	V
Total PoE power budget control		V	V	V	V	V	V	V	V	V
Dynamic power allocation		V	V	V	V	V	V	V	V	V
Auto disable after exceeding power budget		V	V	V	V	V	V	V	V	V
Per port PoE function enable/disable		V	V	V	V	V	V	V	V	V
PoE port power priority		V	V	V	V	V	V	V	V	V
Per PoE port power limit		V	V	V	V	V	V	V	V	V
PD classification detection		V	V	V	V	V	V	V	V	V
Support Management tool										
SmartView	**Cetralizated EMS Management system**	V	V	V	V	V	V	V	V	V
SmartConfig	**Quick & easy for muti device configuration**	V	V	V	V	V	V	V	V	V
Layer 2 feature										
Flow control	**IEEE 802.3x for full duplex mode**	V	V	V	V	V	V	V	V	V
	Back pressure for half duplex mode	V	V	V	V	V	V	V	V	V
VLAN	**VLAN ID**	4K	4K	4K	4K	4K	4K	4K	4K	4K
	Port Based VLAN	V	V	V	V	V	V	V	V	V
	IEEE 802.1Q tagged VLAN	V	V	V	V	V	V	V	V	V
	MAC based VLAN	V	V	V	V	V	V	V	V	V
	IEEE 802.1v Protocol & subnet based VLAN	V	V	V	V	V	V	V	V	V
	IEEE 802.1ad Q-in-Q	V	V	V	V	V	V	V	V	V
	Q-in-Q TPID selectable	V	V	V	V	V	V	V	V	V
	Voice VLAN	V	V	V	V	V	V	V	V	V
	Private VLAN	V	V	V	V	V	V	V	V	V
	VLAN translation	V	V	V	V	V	V	V	V	V
	GVRP	V	V	V	V	V	V	V	V	V
Aggregation	**Static Trunk (SA, DA, IP, TCP/UDP port)**	V	V	V	V	V	V	V	V	V
	Max. trunk No. (LACP)	5	5	5	5	5	5	5	5	5
	Port No. per (LACP)	8 Max.	8 Max.	8 Max.	8 Max.	8 Max.	8 Max.	8 Max.	8 Max.	8 Max.
Spanning Tree	**802.1D STP**	V	V	V	V	V	V	V	V	V
	802.1w RSTP	V	V	V	V	V	V	V	V	V
	802.1s MSTP	V	V	V	V	V	V	V	V	V
Loop protection		V	V	V	V	V	V	V	V	V
ITU-T G.8031		V	V	V	V	V	V	V	V	V
ITU-T G.8032 ERPS	**Convergence time**	50 ms	50 ms	50 ms	50 ms	50 ms	50 ms	50 ms	50 ms	50 ms
	Revertive operation mode	V	V	V	V	V	V	V	V	V
	Multiple-ring network	V	V	V	V	V	V	V	V	V
CTC u-Ring	**Recovery time**	10 ms	10 ms	10 ms	10 ms	10 ms	10 ms	10 ms	10 ms	10 ms
	u-Ring	V	V	V	V	V	V	V	V	V
	u-Chain	V	V	V	V	V	V	V	V	V
	sub-Ring	V	V	V	V	V	V	V	V	V
	Maxium Ring	5	5	5	5	5	5	3	5	3
QoS feature										
Priority Queues		8	8	8	8	8	8	8	8	8
Traffic scheduling	**WRR priority scheduling**	V	V	V	V	V	V	V	V	V
	Strict priority scheduling	V	V	V	V	V	V	V	V	V
	Hybrid	V	V	V	V	V	V	V	V	V
Traffic classification QoS	**802.1p based COS**	V	V	V	V	V	V	V	V	V
	IP Precedence based COS	V	V	V	V	V	V	V	V	V
	IP DSCP based COS	V	V	V	V	V	V	V	V	V
Two rate three color markers	**Ingress traffic policing**	V	V	V	V	V	V	V	V	V
	Egress traffic shaping	V	V	V	V	V	V	V	V	V
	Marking/remarking	V	V	V	V	V	V	V	V	V
Rate limiting	**Ingress**	V	V	V	V	V	V	V	V	V
		Per port based	Per port based	Per port based	Per port based	Per port based	Per port based	Per port based	Per port based	Per port based
	Egress	V	V	V	V	V	V	V	V	V
		Per port based / Per queue based	Per port based / Per queue based	Per port based / Per queue based	Per port based / Per queue based	Per port based / Per queue based	Per port based / Per queue based	Per port based / Per queue based	Per port based / Per queue based	Per port based / Per queue based
GOOSE message										
Diffserv remarking (RFC2474)		V	V	V	V	V	V	V	V	V
IP Multicasting										
IGMP snooping	**IGMP Snooping v1/v2/v3**	V	V	V	V	V	V	V	V	V
	IGMP filtering/throttling	V	V	V	V	V	V	V	V	V
	IGMP Fast Leave	V	V	V	V	V	V	V	V	V
	IGMP guery	V	V	V	V	V	V	V	V	V
	IGMP proxy reporting	V	V	V	V	V	V	V	V	V
	MLD snooping v1/v2	V	V	V	V	V	V	V	V	V
	Maxium muticast group	1022 entries	1022 entries	1022 entries	1022 entries	1022 entries	1022 entries	1022 entries	1022 entries	1022 entries
MVR (Multicast VLAN Registration)		V	V	V	V	V	V	V	V	V
Security features										
Static Port Security (MAC-based)		V	V	V	V	V	V	V	V	V
Per port limited MAC learning		V	V	V	V	V	V	V	V	V
IEEE 802.1X	**Port-Based**	V	V	V	V	V	V	V	V	V
	MAC-Based	V	V	V	V	V	V	V	V	V
	Dynamic VLAN Assignment	V	V	V	V	V	V	V	V	V
	QoS Assignment (w/o QCL profile)	V	V	V	V	V	V	V	V	V
	QoS assignment w/ QCL profile	V	V	V	V	V	V	V	V	V
ACL	**Number of entries**	256	256	256	256	256	256	256	256	256
	L2/L3/L4	V	V	V	V	V	V	V	V	V
RADIUS authentication		V	V	V	V	V	V	V	V	V
RADIUS authentication & accounting		V	V	V	V	V	V	V	V	V
TACACS+ authentication		V	V	V	V	V	V	V	V	V
HTTPS & SSL		V	V	V	V	V	V	V	V	V
SSH v2		V	V	V	V	V	V	V	V	V
User name password authentication	**Local Authentication**	V	V	V	V	V	V	V	V	V
	Remote Authentication	V	V	V	V	V	V	V	V	V
	via RADIUS/TACACS+	V	V	V	V	V	V	V	V	V
Management features										
Management Interface Access Filtering	**SNMP**	V	V	V	V	V	V	V	V	V
	Web	V	V	V	V	V	V	V	V	V
	Telnet/SSH	V	V	V	V	V	V	V	V	V
Cisco like CLI		V	V	V	V	V	V	V	V	V
Web based management		V	V	V	V	V	V	V	V	V
Telnet Server		V	V	V	V	V	V	V	V	V
SNMP v1/v2c/v3		V	V	V	V	V	V	V	V	V
SW & configuration upgrade	**TFTP**	V	V	V	V	V	V	V	V	V
	HTTP	V	V	V	V	V	V	V	V	V
RMON	**RMON I (1,2,3,9 group)**	V	V	V	V	V	V	V	V	V
MIB II	**RFC 1213**	V	V	V	V	V	V	V	V	V
DHCP	**Client**	V	V	V	V	V	V	V	V	V
	Relay	V	V	V	V	V	V	V	V	V
	snooping	V	V	V	V	V	V	V	V	V
	snooping option 82	V	V	V	V	V	V	V	V	V
	relay option 82	V	V	V	V	V	V	V	V	V
IP Source Guard		V	V	V	V	V	V	V	V	V
Port mirroring		V	V	V	V	V	V	V	V	V
Event Syslog	**Syslog server (RFC3164)**	V	V	V	V	V	V	V	V	V
		Support 1 server	Support 1 server	Support 1 server	Support 1 server	Support 1 server	Support 1 server	Support 1 server	Support 1 server	Support 1 server
Warring message	**System syslpg**	V	V	V	V	V	V	V	V	V
	e-Mail	V	V	V	V	V	V	V	V	V
	Alarm relay	V	V	V	V	V	V	V	V	V
DNS	**Client**	V	V	V	V	V	V	V	V	V
	Proxy	V	V	V	V	V	V	V	V	V
NTP		V	V	V	V	V	V	V	V	V
LLDP (IEEE 802.1ab)	**Link Layer Discovery Protocol**	V	V	V	V	V	V	V	V	V
	LLDP-MED	V	V	V	V	V	V	V	V	V
UPnP		V	V	V	V	V	V	V	V	V
sFlow		V	V	V	V	V	V	V	V	V
L2CP		V	V	V	V	V	V	V	V	V
Dying gasp in trap message										
SFF-8472 DDMI		V	V	V	V	V	V	V	V	V
IPv6 features										
IPv6 Management (Telnet Server/ICMP v6)		V	V	V	V	V	V	V	V	V
SNMP over IPv6		V	V	V	V	V	V	V	V	V
HTTP over IPv6		V	V	V	V	V	V	V	V	V
SSH over IPv6		V	V	V	V	V	V	V	V	V
IPv6 Telnet		V	V	V	V	V	V	V	V	V
NTP		V	V	V	V	V	V	V	V	V
IPv6 TFTP		V	V	V	V	V	V	V	V	V
IPv6 QoS		V	V	V	V	V	V	V	V	V
IPv6 ACL		V	V	V	V	V	V	V	V	V
IPv6 ACL	**Number of rules**	256	256	256	256	256	256	256	256	256
	L2/L3/L4	V	V	V	V	V	V	V	V	V
Timing synchronization										
IEEE 1588v2		V	V	V	V	V	V	V	V	V
Others										
Cable Diagnostic		V	V	V	V	V	V	V	V	V
Green Ethernet		V	V	V	V	V	V	V	V	V

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