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iES10G-S

Intelligent 10 Port Managed Gigabit Ethernet Switch





Product Overview

The iES10G-S is an intelligent 10 Port managed Ethernet switch with 7 x 10/100Base-T(X) RJ45 ports, up to $3 \times 10/100/1000$ Base-T(X) RJ45 ports, up to $3 \times 10/100/1000$ Base-T(X) RJ45 ports, up to $2 \times 100/1000$ Base-X SFP ports.

The iES10G-S provides redundancy support through functions such as STP/RSTP/MSTP assuring protection of all mission critical network applications. iES10G-S can be managed via the Web UI, iManage Software Suite, Telnet, and Console (CLI) / SSH v2.

The switch is made of IP-40 galvanized steel and has a wide operating temperature range from -40°C to +85°C, which is suitable for the harshest of environments without the use of fans.

Features and Benefits

Table 1. Features

FEATURE				
SUPPORTS	 STP / RSTP / MSTP LLDP (Link Layer Discovery Protocol) Modbus TCP VLAN Priority—supports priority-tagged frames to be received by specific IEDs HTTPS / SSH v2 SNTP for synchronizing the switch's clock 			
IGMP V2 / V3 (IGMP SNOOPING)				
SNMP V1 / V2C / V3				
RADIUS FOR 802.1X AUTHENTICATION, TACACS+ FOR USER LOGIN AUTHENTICATION				
SUPPORTS DDM (DIGITAL DIAGNOSTIC MONITORING) FUNCTION FOR SFP MODULES				
MULTIPLE ALARM NOTIFICATION METHODS				
CONFIGURABLE BY WEB UI, TELNET, CONSOLE(CLI), IMANAGE SOFTWARE RUNNING ON WINDOWS 10, NT /2000/ XP/2003/VISTA/7				
DIN RAIL AND PANEL MOUNT				

PRODUCT SPECIFICATIONS

Table 2. Technical Specification

DESCRIPTION	SPECIFICATION		
10/100BASE-T(X) RJ45	7		
1 X 10/100/1000BASE-T(X) RJ45	Up to 3		
COMBO*** 10/100/1000BASE-T(X) RJ45 AND 100/1000BASE-X	Up to 3		
100/1000BASE-X SFP	Up to 2		
RS-232 SERIAL CONSOLE PORT	RS-232 in RJ45 connector with console cable: 9600 bps, 8, N, 1		
WARNING / MONITORING SYSTEM	 SYSLOG with server / client structure; recording and viewing events in the System Event Log SMTP for notification via email Event selection per port 		
ALARM	Relay output to carry capacity of 1 A at 24 VDC		
TECHNOLOGY			
MAC TABLE	8K		
PRIORITY QUEUES	4		
PROCESSING	Store-and-Forward		
SWITCH PROPERTIES	Switching latency: 7 µs Switching bandwidth: 7.4 Gbps Max. Number of Available VLANs: 4096 IGMP multicast groups: 32 Port rate limiting: User Defined		

Product Specifications

TECHNOLOGY			
SECURITY FEATURES	 STP/RSTP/MSTP RADIUS for 802.1x authentication TACACS+ for user login authentication Port based network access control (NAS) 802.1x VLAN (802.1 Q) for segregation and securing network traffic enabled by GVRP SNMPv3 authentication and privacy encryption Management Security Port security and MAC Blacklist IP Guard HTTPS / SSH v2 Web and CLI authentication and authorization 		
SOFTWARE FEATURES	 Web or CLI based Management (RS-232 Serial Console or Telnet / SSH v2) HTTPS DHCP Server / Client / Relay VLAN—Port-based (untagged) and 802.1Q (tagged) Supports SNMPv1/v2/v3 Traffic Prioritization—QoS, Port-based Priority, COS/802.1p, TOS/DSCP Multicast traffic—IGMP Snooping (IGMP v2 / v3), MVR, Static Multicast Filtering Warnings (SYSLOG and SMTP), Fault Alarm (power and ports failure), and Event Selection Monitoring and Diagnostics—MAC Table and Port Statistics, Counters, and Monitoring, System Event Log, Traffic Monitoring, and Ping SNTP for synchronizing of clocks over network 		
NETWORK REDUNDANCY	STP/ RSTP/ MSTP, Fast Recovery, Dual Port Recovery, and Ring		
PHYSICAL CHARACTERISTICS			
ENCLOSURE	IP-40 Galvanized Steel		
DIMENSIONS (W X D X H)	114 (W) x 154 (D) x 203 (H) mm (4.50 x 6.08 x 8.00 inches) Panel mount 65 (W) x 162 (D) x 191 (H) mm (2.56 x 6.39 x 7.53 inches) Din rail mount		
WEIGHT (G)	~1000 g		
POWER			
INPUT POWER	Dual Input 10-48VDC, Single Input 36-75VDCwith Single 10-48VDC Backup, or Single Input 110-370VDC or 90-264VAC with Single 10-48VDC Backup		
POWER CONSUMPTION (TYP.)	12 Watts		
OVERLOAD CURRENT PROTECTION	Present		
REVERSE POLARITY PROTECTION	Internal		

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Product Specifications

Table 3. Compliance Specification

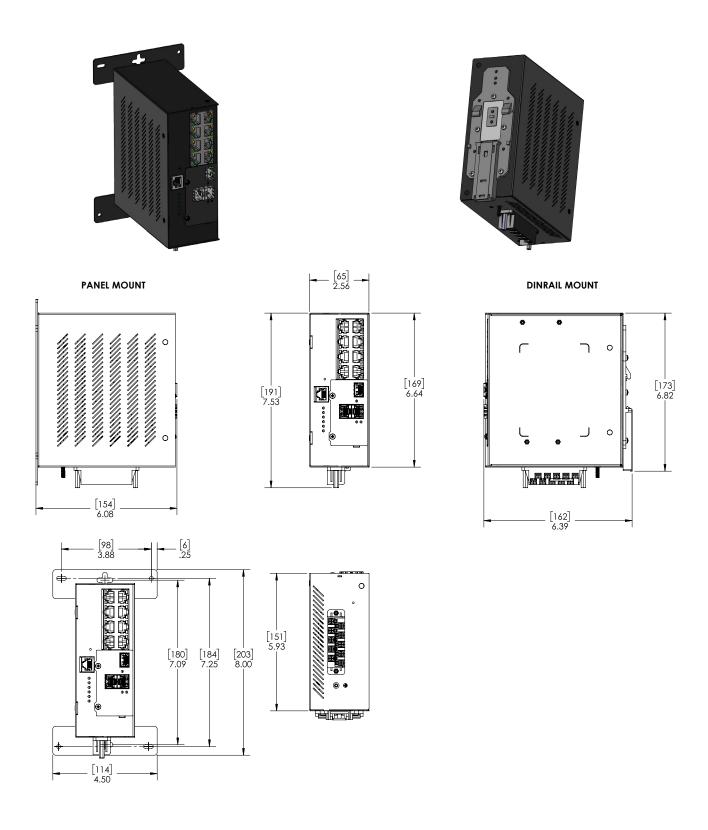
TYPE	STANDARDS	
ELECTROMAGNETIC EMISSIONS	FCC Part 15, CISPR (EN55022) class A, EN50155 (EN50121-3-2, EN55011, EN50121-4)	
ELECTROMAGNETIC IMMUNITY	EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11	
SAFETY STANDARDS	EN60950-1	
OPERATING ENVIRONMENT	-40°C to +85°C (-40o to 185°F) (no fans) EN 60068-2-21	
STORAGE ENVIRONMENT	-40°C to +85°C (-40° to 185°F) EN 60068-2-14	
OPERATING HUMIDITY	5% to 95% Non-condensing EN 60068-2-30	
SHOCK	IEC60068-2-27	
FREE FALL	IEC60068-2-32	
VIBRATION	IEC60068-2-6	
WARRANTY	5 years, (extendable option with additional terms)	

Table 4. Standards and Management

DESCRIPTION	SPECIFICATION		
IEEE STANDARDS	IEEE 802.3u for 100Base-TX and 100Base-FX IEEE 802.3u for 1000Base-TX and 100Base-FX IEEE 802.z for 1000Base-X IEEE 802.3x for Flow control IEEE 802.1D Spanning Tree Protocol IEEE 802.1w -2001 Rapid Spanning Tree Protocol (RSTP) IEEE 802.1D-2004 Rapid Spanning Tree Protocol (RSTP:2004) IEEE 802.1X-2010 Port Based Network Access Control IEEE 802.1AB - 2016 Station and Media Access Connectivity discovery (LLDP)		
RFC COMPLIANCE	 RFC 768: UDP RFC 783: TFTP RFC 791: IPv4 RFC 792: ICMP RFC 793: TCP RFC 854: Telnet RFC 959: FTP RFC 1157: SNMP RFC 2273-2275: SNMPv3 RFC 2571: SNMP Management RFC 1166: IP Addresses RFC 1643: Ethernet Interface MIB RFC 2068: HTTP RFC 21 31, 2132: DHCP 	RFC 2817 Upgrading to TLS Within HTTP/1.1 RFC 2818 HTTP Over TLS RFC 3376: IGMP v3 RFC 2474: DiffServ Precedence RFC 3046: DHCP Relay Agent Information Option RFC 3580: 802.1x RADIUS RFC draft-ietf-opsawg-tacacs-09 -TACACS+	

Dimensions

All dimensions are shown in inches [millimeters].



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Ordering Information

BASE	POWER SUPPLY	MOUNT	ETHERNET PORT 1-7*	ETHERNET PORT 9 & 10	MOD	DESCRIPTION
iES10G-S	LV	D	7RJ45&1GRJ45	2GSFP	C1	
iES10G-S	I	I	I	1	I	Slim Line Managed core assembly and packaging
	LV		I	I		Dual Input 10-48VDC
	MV	1	I	T	I	Single Input 36-75VDC with Single 10-48VDC Backup
	HV			I	I	Single Input 110-370VDC or 90-264VAC with Single 10-48VDC Backup
		D	I	T	I	DIN Rail Mounting
		Р	I	I	I	Panel Mounting
		N	I	1		No Mounting Hardware
			I	I	I	None
			7RJ45&1GRJ45	I	I	7 X 10/100Base-T(X) RJ45 and 1 X 10/100/1000Base-T(X) RJ45
			7RJ45&1GCX	I	I	Combo*** 1 X 10/100/1000Base-T(X) RJ45 and 1 X 100/1000Base-X
				XX	I	None
				2GRJ45	I	2 X 10/100/1000Base-T(X) RJ45
				2GSFP	I	2 X 100/1000Base-X SFP (Blank no optical transceivers**)
				2GCX	I	Combo*** 2 X 10/100/1000Base-T(X) RJ45 and 2 X 100/1000Base-X (Blank no optical transceivers**)
					C1	Conformal Coating

^{*} Port 9&10 cannot be XX when 7RJ45&1GCX is selected

iES10G-S Sample Order Code

iES10G-S-LV-D-7RJ45&1GCX-2GSFP

Description: 10 Port Ethernet Switch with a combination of Gigabit Ports, Slim Line, (Power Supply) Dual Input 10-48VDC, DIN Rail Mounting, (Ethernet Port 1-7(8))—7 X 10/100Base-T(X) RJ45 and 1 X 10/100/1000Base-T(X) RJ45, (Ethernet Port 9 & 10)—2 X 100/1000Base-X SFP.

The same unit, may be ordered with conformal coating by appending '-C1' to the order code, for example: iES10G-S-LV-D-7RJ45&1GCX-2GSFP-C1

Description: 10 Port Ethernet Switch with a combination of Gigabit Ports, Slim Line, (Power Supply) Dual Input 10-48VDC, DIN Rail Mounting, (Ethernet Port 1-7(8))—7 X 10/100Base-T(X) RJ45 and 1 X 10/100/1000Base-T(X) RJ45, (Ethernet Port 9 & 10)—2 X 100/1000Base-X SFP. This system will be conformal coated.

^{**} SEE ACCESSORIES FOR SFP TRANSCEIVER PRICING

^{***} Combo of the 2 ports available, only 1 Port can be used in combination





Provided by: Mega Hertz | 800-883-8839 | info@go2mhz.com | www.go2mhz.com

https://www.go2mhz.com/product/intelligent-10-port-managed-gigabit-ethernet-switch/