

GIS8P2C240

Industrial L2+ Managed GbE PoE+ Switch

GIS8P2C240industrial L2+ managed GbE PoE+ switch is the next generation industrial grade Ethernet switch offering powerful L2 and basic L3 features with better functionality and usability. In addition to the extensive management features, of which make them suitable for industrial applications.

GIS8P2C240delivers 8 (10M/100M/1G) RJ45 with 8 PoE+ (Support 802.3 at/af, and total up to 240W) ports, 2 Combo GbE RJ45/SFP ports and RJ45 console port. GIS8P2C240provides high HW performance and environment flexibility for industrial applications.

The embedded Device Managed System (DMS) features provides users with the benefits of easy-to-use/configure/install/troubleshoot in the video surveillance, wireless access, and other industrial applications. GIS8P2C240is ideal to deliver management simplicity, better user experience, and lowest total cost of ownership

Specifications -

- Rapid Ring (R-Ring)
- Built in Device Management System (DMS)
- iPush APP for real time alarm notification
- IEEE 802.3az Energy Efficient Ethernet standard for green Ethernet application
- IEEE 802.3af/at Power over Ethernet
- IPv4/IPv6 L3 static route
- EtherNet/IP (by request)
- PROFINET (by request)

Construction Variables ADVICE | Solid Section of Points | Solid Secti

Benefits

• Feature-rich Specifications to Support Various Applications

The switch deliver extensive industrial grade functionalities, including R-Ring. It also have enhanced L2/L3 features for better manageability and usability.

It provides advanced PoE features such as PoE auto-checking, PoE scheduling, and PoE power delay for users to manage the powered devices more easily. With extensive PoE+ mode configured, it can even provides power with up to 38W per port.

It offers users with better price/performance ratio in industrial application, and provide secure and reliable functionalities for metro Ethernet deployments.

Easy to Install, Configure and Troubleshoot by Device Management System

The DMS provides embedded functions to facilitate devices management at anytime and anywhere. Its user-friendly interface helps users to manage devices intuitively.

It supports various IP device types (e.g. PC, IP-phone, IP-camera, WiFi-AP) for end users to enhance manageability and save time/cost during installation/maintenance stages.



Lowing Total Cost of Ownership (TCO) with Energy-efficient Design

The switch is designed to help companies to save power needs and reduce TCO by Energy Efficient Ethernet (IEEE 802.3az). It can be used for customers to build a green Ethernet networking environment.

Port Configuration

Total Ports	RJ45 (10M/100M/1G)	Uplinks (100M/1G)	Console	Ring Mgmt.	DI/DO
10	8	2 combo	RJ45	DIP	1/1

Hardware Performance

Forwarding	Switching	Mac Table	Jumbo Frames
Capacity (Mpps)	Capacity (Gbps)	(K)	(Bytes)
14.88	20	8	9216

Environmental Range

Operating Temperature		Storage Te	emperature	Operating Humidity	Altitude	
Fahrenheit	Centigrade	Fahrenheit	Centigrade	5% to 95%	Feet	Meters
-40 to 167	-40 to 75	-40 to 185	-40 to 85	non-condensing	< 10000	<3000

Dimension, Weights, Mounting

Dimension (WxHxD)		Weight		Mounting Type	
Millimeter	Inches	Kilograms	Pounds	Mounting Type	
62x 135x 130	2.4x 5.3x 5.1	< 1	<2.2	DIN rail	

Voltage and Frequency

Primary Power Supply - DC Input Voltage			
DC Nominal	54 VDC dual inputs		
DC Operating Range	48 to 57 VDC		
PoE SKUs	 Required >48 VDC for PoE IEEE 802.3af (Max. 15.4W) output Required >54 VDC for PoE+ IEEE802.3at (Max. 30W) output 		

PoE Power Capacity

Available PoE Power	Number of Ports That Support PoE(15.4W), PoE+(30.0W)	
$7\Delta()VV$	Each of port 1 - 8 support PoE/ PoE+ within available PoE Power (per port 38W by request)	

Certifications

	Regulatory Compliance	
EMS	EN61000-4-2 ESD, EN61000-4-3 RS, EN61000-4-4 EFT, EN61000-4-5 (for RJ45 Port, Surge 6KV), EN61000-4-6 CS, EN61000-4-8 PFMF, (EN61000-6-2 by request)	
EMI	FCC Part 15 Class A (EN61000-3-2, EN61000-3-3, EN61000-6-4, EN55022, EN55011 by request)	
Safety	CE, (EN60950 by request)	
Mechanical Stability		
Vibration	IEC 60068-2-6	



Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32
	Approvals (by request)
Railway Norm	EN50121-4, EN50155
Transportation	NEMA TS2
Substation	IEC61850-3, IEEE1613
Marine	DNV

Software Features

Software reatures	Ring Management
Rapid Ring	Enable self-recover time in less than 20ms
1 0	Device Management System (DMS)
Graphical Monitoring	 Topology view: Support intuitive way to configure and manage switches and devices with visual relations Floor view: It's easy to drag and drop PoE devices and help you to build smart workforces Map view: Enhance efficiency to drag and drop devices and monitor surroundings on google map
Find my Switch	Search and manage your real switches quickly.
Traffic Monitoring	Display visual chart of network traffic of all devices and monitor every port at any time from switches
Trouble Shooting	 Network diagnostic between master switch and devices Support protection mechanism, such as rate-limiting to protect your devices from brute-force downloading
	Industrial Protocols (by Request)
EtherNet/IP	EtherNet/IP is an industrial Ethernet network that combines standard Ethernet technologies with the media-independent Common Industrial Protocol.
PROFINET	It can be recorded and displayed using an Ethernet analysis tool such as Wireshark. The topology can be shown using analysis tools such as TH Scope.
	Layer 2 Switching
Spanning Tree Protocol (STP)	 Standard Spanning Tree 802.1d Rapid Spanning Tree (RSTP) 802.1w Multiple Spanning Tree (MSTP) 802.1s
Trunking	 Link Aggregation Control Protocol (LACP) IEEE 802.3ad Up to 5 groups and up to 4 ports per group
VLAN	 Port-based VLAN 802.1Q tag-based VLAN MAC-based VLAN Management VLAN Private VLAN Edge (PVE) Q-in-Q (double tag) VLAN Voice VLAN GARP VLAN Registration Protocol (GVRP)
DHCP Relay	 Relay of DHCP traffic to DHCP server in different VLAN. Works with DHCP Option 82
IGMP v1/v2/v3	IGMP limits bandwidth-intensive multicast traffic to only the requesters.
Snooping	Supports 1024 multicast groups



- WDAIC	
IGMP Querier	IGMP querier is used to support a Layer 2 multicast domain of snooping switches in the absence of a multicast router
IGMP Proxy	IGMP snooping with proxy reporting or report suppression actively filters IGMP packets in order to reduce load on the multicast router
MLD v1/v2 Snooping	Delivers IPv6 multicast packets only to the required receivers
Multicast VLAN Registration (MVR)	It uses a dedicated manually configured VLAN, called the multicast VLAN, to forward multicast traffic over Layer 2 network in conjunction with IGMP snooping.
	Layer 3 Switching
IPv4 Static Routing	IPv4 Unicast: Static routing
IPv6 Static Routing	IPv6 Unicast: Static routing
	Security
Secure Shell (SSH)	SSH secures Telnet traffic in or out of the switch, SSH v1 and v2 are supported
Secure Sockets Layer (SSL)	SSL encrypts the http traffic, allowing advanced secure access to the browser-based management GUI in the switch
IEEE 802.1X	 IEEE802.1X: RADIUS authentication, authorization and accounting, MD5 hash, guest VLAN, single/multiple host mode and single/multiple sessions Supports IGMP-RADIUS based 802.1X Dynamic VLAN assignment
Layer 2 Isolation Private VLAN Edge	PVE (also known as protected ports) provides L2 isolation between clients in the same VLAN. Supports multiple uplinks
Port Security	Locks MAC addresses to ports, and limits the number of learned MAC address
IP Source Guard	Prevents illegal IP address from accessing to specific port in the switch
RADIUS/ TACACS+	Supports RADIUS and TACACS+ authentication. Switch as a client
Storm Control	Prevents traffic on a LAN from being disrupted by a broadcast, multicast, or unicast storm on a port
DHCP Snooping	A feature acts as a firewall between untrusted hosts and trusted DHCP servers
ACLs	Supports up to 256 entries. Drop or rate limitation based on: Source and destination MAC, VLAN ID or IP address, protocol, port, Differentiated services code point (DSCP) / IP precedence TCP/ UDP source and destination ports 802.1p priority Ethernet type Internet Control Message Protocol (ICMP) packets TCP flag
Loop Protection	To prevent unknown unicast, broadcast and multicast loops in Layer 2 switching configurations.
Handwar O	Quality of Service
Hardware Queue	Supports 8 hardware queues
Scheduling	 Strict priority and weighted round-robin (WRR) Queue assignment based on DSCP and class of service



Classification Port based 802.1 p VLAN priority based 1Pv4/IPv6 precedence / DSCP based Differentiated Services (DiffServ) Classification and re-marking ACLs Ingress policer Egress shaping and rate control Per port Management HW Monitoring HW Watchdog Upported to resume operation from CPU hang up The real time alarm notification could lower technical support cost Works with iOS and Android devices to make quick work of even the most demanding tasks. DHCP Server Remote Monitoring (RMON) Embedded RMON agent supports RMON groups 1,2,3,9 (history, statistical alarms, and events) for enhanced traffic management, monitoring and analysis Traffic on a port can be mirrored to another port for analysis with a netwanalyzer or RMON probe. Up to N-1 (N is Switch's Ports) ports can be
Classification IPv4/IPv6 precedence / DSCP based Differentiated Services (DiffServ) Classification and re-marking ACLs Ingress policer Egress shaping and rate control Per port Management HW Monitoring HW Watchdog Supported to resume operation from CPU hang up The real time alarm notification could lower technical support cost Works with iOS and Android devices to make quick work of even the most demanding tasks. DHCP Server Remote Monitoring (RMON) Embedded RMON agent supports RMON groups 1,2,3,9 (history, statistical alarms, and events) for enhanced traffic management, monitoring and analysis Traffic on a port can be mirrored to another port for analysis with a netw
Differentiated Services (DiffServ) Classification and re-marking ACLs Ingress policer Egress shaping and rate control Per port Management HW Monitoring Temperature Detection and Alarm HW Watchdog Supported to resume operation from CPU hang up The real time alarm notification could lower technical support cost Works with iOS and Android devices to make quick work of even the most demanding tasks. DHCP Server Remote Monitoring (RMON) Embedded RMON agent supports RMON groups 1,2,3,9 (history, statistical alarms, and events) for enhanced traffic management, monitoring and analysis Traffic on a port can be mirrored to another port for analysis with a network.
Classification and re-marking ACLs Ingress policer Egress shaping and rate control Per port Management HW Monitoring HW Watchdog Supported to resume operation from CPU hang up The real time alarm notification could lower technical support cost Works with iOS and Android devices to make quick work of even the most demanding tasks. DHCP Server Remote Monitoring (RMON) Embedded RMON agent supports RMON groups 1,2,3,9 (history, statistic alarms, and events) for enhanced traffic management, monitoring and analysis Traffic on a port can be mirrored to another port for analysis with a network.
 Rate Limiting Egress shaping and rate control Per port Management HW Monitoring Temperature Detection and Alarm HW Watchdog Supported to resume operation from CPU hang up The real time alarm notification could lower technical support cost Works with iOS and Android devices to make quick work of even the most demanding tasks. DHCP Server Support DHCP server to assign IP to DHCP clients Embedded RMON agent supports RMON groups 1,2,3,9 (history, statistic alarms, and events) for enhanced traffic management, monitoring and analysis Traffic on a port can be mirrored to another port for analysis with a network
 Rate Limiting Egress shaping and rate control Per port Management HW Monitoring Temperature Detection and Alarm HW Watchdog Supported to resume operation from CPU hang up The real time alarm notification could lower technical support cost Works with iOS and Android devices to make quick work of even the most demanding tasks. DHCP Server Support DHCP server to assign IP to DHCP clients Embedded RMON agent supports RMON groups 1,2,3,9 (history, statistic alarms, and events) for enhanced traffic management, monitoring and analysis Traffic on a port can be mirrored to another port for analysis with a network
Rate Limiting Egress shaping and rate control Per port Management HW Monitoring HW Watchdog Temperature Detection and Alarm Supported to resume operation from CPU hang up The real time alarm notification could lower technical support cost Works with iOS and Android devices to make quick work of even the most demanding tasks. DHCP Server Remote Monitoring (RMON) Embedded RMON agent supports RMON groups 1,2,3,9 (history, statistic alarms, and events) for enhanced traffic management, monitoring and analysis Traffic on a port can be mirrored to another port for analysis with a network Traffic on a port can be mirrored to another port for analysis with a network Management Management Management Temperature Detection and Alarm DHCP U hang up The real time alarm notification could lower technical support cost The real time alarm notification could lower technical support cost The real time alarm notification could lower technical support cost The real time alarm notification could lower technical support cost The real time alarm notification could lower technical support cost The real time alarm notification could lower technical support cost The real time alarm notification could lower technical support cost The real time alarm notification could lower technical support cost The real time alarm notification could lower technical support cost The real time alarm notification could lower technical support cost The real time alarm notification could lower technical support cost The real time alarm notification could lower technical support cost The real time alarm notification could lower technical support cost The real time alarm notification could lower technical support cost The real time alarm notification could lower technical support cost The real time alarm notification could lower technical support cost The real time alarm notification could lower technical support cost The real time alarm notification could lower technical support cost The real time alarm notification could lo
Management HW Monitoring Temperature Detection and Alarm HW Watchdog Supported to resume operation from CPU hang up The real time alarm notification could lower technical support cost Works with iOS and Android devices to make quick work of even the most demanding tasks. DHCP Server Support DHCP server to assign IP to DHCP clients Remote Monitoring (RMON) Embedded RMON agent supports RMON groups 1,2,3,9 (history, statistic alarms, and events) for enhanced traffic management, monitoring and analysis Traffic on a port can be mirrored to another port for analysis with a network.
HW Monitoring HW Watchdog Supported to resume operation from CPU hang up The real time alarm notification could lower technical support cost Works with iOS and Android devices to make quick work of even the most demanding tasks. DHCP Server Support DHCP server to assign IP to DHCP clients Embedded RMON agent supports RMON groups 1,2,3,9 (history, statistic alarms, and events) for enhanced traffic management, monitoring and analysis Traffic on a port can be mirrored to another port for analysis with a network.
HW Monitoring HW Watchdog Supported to resume operation from CPU hang up The real time alarm notification could lower technical support cost Works with iOS and Android devices to make quick work of even the most demanding tasks. DHCP Server Support DHCP server to assign IP to DHCP clients Embedded RMON agent supports RMON groups 1,2,3,9 (history, statistic alarms, and events) for enhanced traffic management, monitoring and analysis Traffic on a port can be mirrored to another port for analysis with a network.
HW Watchdog Supported to resume operation from CPU hang up The real time alarm notification could lower technical support cost Works with iOS and Android devices to make quick work of even the most demanding tasks. DHCP Server Support DHCP server to assign IP to DHCP clients Embedded RMON agent supports RMON groups 1,2,3,9 (history, statistic alarms, and events) for enhanced traffic management, monitoring and analysis Traffic on a port can be mirrored to another port for analysis with a netw
 The real time alarm notification could lower technical support cost Works with iOS and Android devices to make quick work of even the most demanding tasks. DHCP Server Support DHCP server to assign IP to DHCP clients Embedded RMON agent supports RMON groups 1,2,3,9 (history, statistic alarms, and events) for enhanced traffic management, monitoring and analysis Traffic on a port can be mirrored to another port for analysis with a netw
 iPush Works with iOS and Android devices to make quick work of even the most demanding tasks. DHCP Server Remote Monitoring (RMON) Embedded RMON agent supports RMON groups 1,2,3,9 (history, statistic alarms, and events) for enhanced traffic management, monitoring and analysis Traffic on a port can be mirrored to another port for analysis with a netw
most demanding tasks. DHCP Server Support DHCP server to assign IP to DHCP clients Remote Monitoring (RMON) Embedded RMON agent supports RMON groups 1,2,3,9 (history, statistic alarms, and events) for enhanced traffic management, monitoring and analysis Traffic on a port can be mirrored to another port for analysis with a netw
DHCP Server Remote Monitoring (RMON) Support DHCP server to assign IP to DHCP clients Embedded RMON agent supports RMON groups 1,2,3,9 (history, statistic alarms, and events) for enhanced traffic management, monitoring and analysis Traffic on a port can be mirrored to another port for analysis with a netw
Remote Monitoring (RMON) Embedded RMON agent supports RMON groups 1,2,3,9 (history, statistic alarms, and events) for enhanced traffic management, monitoring and analysis Traffic on a port can be mirrored to another port for analysis with a netw
(RMON) alarms, and events) for enhanced traffic management, monitoring and analysis Traffic on a port can be mirrored to another port for analysis with a netw
analysis Traffic on a port can be mirrored to another port for analysis with a netw
Traffic on a port can be mirrored to another port for analysis with a netw
Port Mirroring analyzer or RMON probe. Up to N-1 (N is Switch's Ports) ports can be
mirrored to single destination port. A single session is supported.
The Universal Plug and Play Forum, an industry group of companies
UPnP working to enable device-to-device interoperability by promoting Univers
Plug and Play
The industry standard for monitoring high speed switched networks. It gives
complete visibility into the use of networks enabling performance
s-Flow optimization, accounting/billing for usage, and defense against security
threats
Used by network devices for advertising their identities, capabilities,
neighbors on an IEEE 802ah local area network
(LLDP) • Support LLDP-MED extensions
Web GUI Interface Built-in switch configuration utility for browser-based device configuration
CLI For users to configure/manage switches in command line modes
Dual Image Independent primary and secondary images for backup while upgrading
SNMP version 1, 2c and 3 with support for traps, and SNMP version 3 use
SNMP based security model (USM)
WILL LUITTO LITTO
Firmward Indrado
Upgrade through console port as well
NTP Network Time Protocol (NTP) is a networking protocol for clock
synchronization between computer systems over packet-switched
HTTP/HTTPs; SSH
DHCP Client/ DHCPv6 Client
Other • Cable Diagnostics
Management • Ping
Syslog
IPv6 Management
Power over Ethernet (PoE)
Tower over Linemer (Loc)
Port Configuration Supports per port PoE configuration function



PoE Scheduling	Supports per port PoE scheduling to turn on/off the PoE devices (PDs).
Auto-checking	Check the link status of PDs. Reboot PDs if there is no responses.
Power Delay	The switch provides power to the PDs based on delay time when PoE switch
	boots up, in order to protect switch from misuse of the PDs