



GIS4P2C120

Industrial L2+ Managed GbE PoE+ Switch

GIS4P2C120 industrial 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.

GIS4P2C120 delivers 4 (10M/100M/1G) RJ45 with 4 PoE+ (Support 802.3 at/af, and total up to 120W) ports, 2 Combo GbE RJ45/SFP ports and RJ45 console port. GIS4P2C120 provides high HW performance and environment flexibility for industrial applications.

The embedded Device Managed System (DMS) features provides users with the benefits of easy-touse/configure/install/troubleshoot in the video surveillance, wireless access, and other industrial applications. GIS4P2C120 is 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
- DHCP Server
- 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)

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

Port Configurati										
Total Ports RJ45 (10M/100M/			(100M/1G) Uplinks		Console		Ring M	.gmt. [DI/DO	
6	4		2 Combo		RJ45		DIP	1/1	1/1	
Hardware Performance										
Forwarding Capacity (Mpps)			Switching Capacity (Gbps)		Mac Table (K)		Jumbo Fran (Bytes)			
8.928					8		9216			
Environmental R	Range						I			
Operating Te		re	Storage Te	empera	ture	Oper Hum	ating nidity	Altitu	nqe	
Fahrenheit	Centigrad	de Fa	hrenheit	Centigrade		5% to 95%		Feet	Meters	
-40 to 167	to 167 -40 to 75		-40 to 185		85	non-condensing		< 10000	<3000	
Dimension, Wei	ights, Mo	unting		1		1		1	11	
Dimensic	on (WxHxl	D)		We	eight			· · · · -		
Millimeter	Inc	hes	Kilograms		Pounds		- Mounting Type		vpe	
62x 135x 130					<2.2	DIN		rail		
Voltage and Fre				I						
	. ,	Prin	nary Powei	- Supply	/ - DC Ir	nput Volta	ae			
DC Nominal		1	Primary Power Supply - DC Input Voltage 54 VDC dual inputs							
			48 to 57 VDC							
	0	Required >48 VDC for PoE IEEE 802.3af (Max. 15.4W) output								
PoE SKUs	Required >54 VDC for PoE+ IEEE802.3at (Max. 30W) output									
PoE Power Cape	acity							, .		
Available PoE F	Power					Ports That /), PoE+(3				
			port 1 - 4 support PoE/ PoE+ within available PoE Power t 38W by request)							
Certifications			/	//						
			Regu	latory C	Complia	nce				
	EN610	00-4-2	_	-	-		-4 EFT, E	N61000-4-	5 (for	
EMS RJ45 Port, Surge 6KV), EN61000-4-6 CS, EN61000-4-8 PFMF,					MF,					
		(EN61000-6-2 by request)								
EMI		FCC Part 15 Class A								
		(EN61000-3-2, EN61000-3-3, EN61000-6-4, EN55022, EN55011 by request) CE, (EN60950 by request)					request)			
Safety		00730			نا ديو ا	4. <i></i>				
Vibration		040 0 4		chanicc	ıl Stabili	IY				
Shock	IEC 60068-2-6 IEC 60068-2-27									
Freefall	IEC 60068-2-27 IEC 60068-2-32									
				ovals (oy reque					
Railway Norm	EN501	21-4 FM			,					
Transportation		EN50121-4, EN50155 NEMA TS2								
Substation	IEC61850-3, IEEE1613									
Marine	DNV									
L										



Software Features

Ring Management							
Rapid Ring	Enable self-recover time in less than 20ms						
Device Management System (DMS)							
	Topology view: Support intuitive way to configure and manage switches and						
	devices with visual relations						
Graphical	Floor view: It's easy to drag and drop PoE devices and help you to build						
Monitoring	smart workforces						
	Map view: Enhance efficiency to drag and drop devices and monitor						
Final and Conitals	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						
	Network diagnostic between master switch and devices						
Trouble Shooting	Support protection mechanism, such as rate-limiting to protect your devices						
	from brute-force downloading						
	Industrial Protocols (by Request)						
	EtherNet/IP is an industrial Ethernet network that combines standard						
EtherNet/IP	Ethernet technologies with the media-independent Common Industrial Protocol.						
	It can be recorded and displayed using an Ethernet analysis tool such as						
PROFINET	Wireshark. The topology can be shown using analysis tools such as TH						
	Scope.						
	Layer 2 Switching						
	Standard Spanning Tree 802.1d						
Spanning Tree	Rapid Spanning Tree (RSTP) 802.1w						
Protocol (STP)	Multiple Spanning Tree (MSTP) 802.1s						
	Link Aggregation Control Protocol (LACP) IEEE 802.3ad						
Trunking	Up to 3 groups and up to 4 ports per group						
	Port-based VLAN						
VLAN	802.1Q tag-based VLAN						
	MAC-based VLAN						
	Management VLAN						
	Private VLAN Edge (PVE)						
	Q-in-Q (double tag) VLAN						
	GARP VLAN Registration Protocol (GVRP)						
DHCP Relay	Relay of DHCP traffic to DHCP server in different VLAN.						
	Works with DHCP Option 82IGMP limits bandwidth-intensive multicast traffic to only the requesters.						
IGMP v1/v2/v3 Snooping	Supports 1024 multicast groups						
	IGMP querier is used to support a Layer 2 multicast domain of snooping						
IGMP Querier	switches in the absence of a multicast router						
	IGMP snooping with proxy reporting or report suppression actively filters						
IGMP Proxy	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.
	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 802.1p VLAN priority based IPv4/IPv6 precedence / DSCP based Differentiated Services (DiffServ) Classification and re-marking ACLs
Rate Limiting	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
iPush	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, statistics, alarms, and events) for enhanced traffic management, monitoring and analysis
Port Mirroring	Traffic on a port can be mirrored to another port for analysis with a network 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.
UPnP	The Universal Plug and Play Forum, an industry group of companies working to enable device-to-device interoperability by promoting Universal Plug and Play
s-Flow	The industry standard for monitoring high speed switched networks. It gives complete visibility into the use of networks enabling performance optimization, accounting/billing for usage, and defense against security threats
IEEE 802.1ab (LLDP)	Used by network devices for advertising their identities, capabilities, and neighbors on an IEEE 802ab local area network 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	SNMP version1, 2c and 3 with support for traps, and SNMP version 3 user- based security model (USM)
Firmware Upgrade	Web browser upgrade (HTTP/ HTTPs) and TFTP Upgrade through console port as well
NTP	Network Time Protocol (NTP) is a networking protocol for clock synchronization between computer systems over packet-switched
Other Management	HTTP/HTTPs; SSH DHCP Client/ DHCPv6 Client Cable Diagnostics Ping Syslog IPv6 Management
	Power over Ethernet (PoE)
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