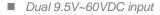


IGS-3204MGSFP

4 10/100/1000T + 2 1G/2.5G SFP L2+ Industrial Managed Switch

w/ Enhanced G.8032 Ring

- Enhanced G.8032 ring protection < 20ms for single ring. Supports enhanced mode and basic mode; Enhanced G.8032 ring covers multicast packets; MSTP 8 MSTI /RSTP
- Miss-wiring avoidance & node failure protection
- User friendly UI, including auto topology drawing and DDM threshold monitoring with dB values***; Complete CLI
- Support LACP link aggregation, IGMP v3/router port, DHCP server & DHCP Option82; DHCP Snooping; Port based DHCP distribution, Mac based DHCP server, SSH v2/SSL, HTTPS, INGRESS ACL L2/L3



- USB port for backup, restore the configuration file
- Optional Environmental monitoring function to display inside switch info incl.
 temperature, voltage, current, power consumption















OVERVIEW

Lantech IGS-3204MGSFP is a high performance L2+ all Gigabit switch with 4 10/100/1000T + 2x 1G/2.5G selectable multi-Giga- rate SFP which provides L2 wire speed and advanced security function for network aggregation deployment. It delivers ITU G.8032 enhanced ring recovery less than 20ms for single ring, comprehensive QoS, VLAN, GVRP, advanced security SSH v2/SSL, INGRESS ACL L2/L3, IGMPv1/v2/v3/router port, DHCP server/relay, jumbo frame which are important features required in mid and large network. It also supports Cisco Discovery Protocol (CDP) and LLDP for Ciscoworks to detect the switch info and to be shown on L2 map topology.

Miss-wiring avoidance, Node failure protection, Loop protection

The IGS-3204MGSFP also embedded several features for stronger and reliable network protection in an easy and intuitive way. When the pre-set ring configuration failed or looped by miss-wiring, Lantech IGS-3204MGSFP is able to alert with the LED indicator and disable ring automatically. Node failure protection ensures the switches in a ring to survive after power breakout is back. The status can be shown in NMS when each switch is back. Loop protection is also available to prevent the generation of broadcast storm when a dumb switch is inserted in a closed loop connection.

User friendly GUI, Auto topology drawing

The user friendly UI, innovative auto topology drawing and topology demo makes IGS-3204MGSFP much easier to get hands-on. The complete CLI enables professional engineer to configure setting by command line.

Enhanced G.8032 ring, 8 MSTI MSTP

Lantech IGS-3204MGSFP features enhanced G.8032 ring which can be self-healed in less than 20ms for single ring topology protection covering multicast packets. It also supports various ring topologies that covers enhanced ring and basic ring by easy setup than others. It supports MSTP that allows each spanning tree for each VLAN for redundant links with 8 MSTI.

DHCP option 82 & Port based, Mac based DHCP, Option66, DHCP Snooping

DHCP server can assign dedicated IP address by MAC or by port (Port based for single switch), it also can assign IP address by port for multiple switches with single DHCP option82 server. DHCP Snooping is supported. DHCP Option66 server can offer IP address of TFTP server to DHCP client for VOIP application.



GVRP supported

It supports the GVRP for large VLAN segmentation.

IGMPv3, GMRP, router port, static multicast forwarding and multicast Ring protection

The unique multicast protection under enhanced G.8032 ring can offer immediate self-recovery instead of waiting for IGMP table timeout. It also supports IGMPv3, GMRP, router port and static multicast forwarding binding by ports for video surveillance application.

Editable configuration text file; Factory reset button; CPU watchdog

The configuration file of Lantech IGS-3204MGSFP can be exported in text file so that it can be edited and configured back to switch with ease for mass deployment. Factory reset button can restore the setting back to factory default and built-in watchdog design can automatically reboot the switch when CPU is found dead. IGS-3204MGSFP also supports dual image firmware function.

USB port for back up, restore configuration and upgrade firmware

The built-in USB port can upload/download the firmware through USB dongle for switch replacement.

Event log & message; 2DI / 2DO

In case of event, the IGS-3204MGSFP is able to send email to pre-defined addresses as well as SNMP Traps out immediately. It provides 2DI and 2DO. When disconnection of the specific port was detected; DO will activate the signal LED to alarm. DI

can integrate the sensors for events and DO will trigger the alarm while sending alert information to IP network with email and traps.

Relay alarm and email/trap alerting

Featured with relay contact alarm function, the IGS-3204MGSFP is able to connect with alarm system in case of power failure and port disconnection. In case of such event, it will send out email, trap alerting to predefined users.

Optional environmental monitoring** for switch inside information (-M model)

The environmental monitoring can detect switch overall temperature, voltage and current where can send the SNMP traps, and email alert when abnormal.

Dual 12V~48V input; High reliability and extended working temperature

Lantech IGS-3204MGSFP is designed with dual input power at 9.5V~60VDCinput; Lantech IGS-3204MGSFP provides \pm 2000V EFT/SURGE and \pm 4000 VDC (Contact) / \pm 8000 VDC (Air) Ethernet ESD protection, which can reduce unstable situation caused by power line and Ethernet. It has high reliability and robustness coping with extensive EMI/RFI phenomenon, environmental vibration and shocks usually found in Automation, transportation, surveillance, Wireless backhaul, Semi-conductor factory and assembly lines.

The -E model can be used in extreme environments with an operating temperature range of -40°C to 75°C.

FEATURES & BENEFITS

- 4 10/100/1000T + 2 1G/2.5G selectable SFP (Total 6 Ports Switch)
- Support 10K bytes jumbo frames
- Dual 9.5V~60VDC power input
- Back-plane (Switching Fabric): 18Gbps
- 16K MAC address table
- DDM to support SFP diagnostic function***
 - Automatically convert the raw data into dB values for TX power/RX power, making it easier to measure the fiber distance
- 10KB Jumbo frame
- User friendly UI, auto topology drawing, topology demo, complete CLI for professional setting
- Enhanced G.8032 Ring protection in 20ms for single ring
 - Support various ring/chain topologies, including enhanced ring & basic ring
 - Enhanced G.8032 ring configuration with ease
 - Cover multicast and data packets protection
- Provides EFT/SURGE protection ±2000 VDC for power line
- Supports ±4000 VDC (Contact) and ±8000 VDC (Air)
 Ethernet ESD protection
- Supports IEEE 802.1p Class of Service, per port provides 8 priority queues Port base, Tag Base and

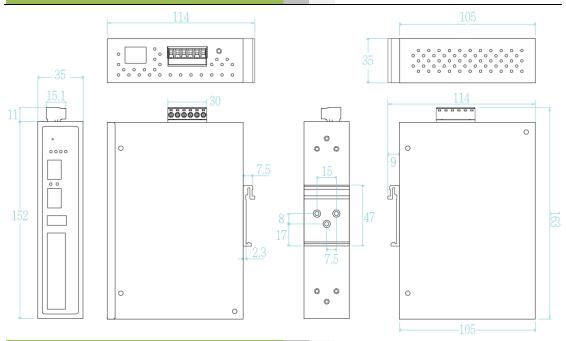
- Type of Service Priority
- IEEE 802.1d STP, IEEE 802.1w RSTP,802.1s MSTP
 VLAN redundancy with 8 MSTI
- 4K 802.1Q VLAN, Port based VLAN, GVRP
- Supports IEEE 802.1ab LLDP, Cisco CDP; LLDP info can be viewed via Web/ Console
- DHCP server / client / DHCP Option 82 relay / DHCP
 Option 82 server; Port based DHCP server; DHCP
 Snooping; DHCP option 66
- Bandwidth Control
 - Ingress packet filter
 - Broadcast/multicast packet filter control
- Relay alarm output system events
- Miss-wiring avoidance
 - LED indicator
- Node failure protection
 - Ensure the switches in a ring to survive after power breakout is back
 - The status can be shown in NMS when each switch is back
- TFTP/ HTTP firmware upgrade
- Configuration backup and restoration
 - Supports editable configuration file for system quick installation



- USB port for upload / download configuration by
 USB dongle
- System Event Log, SMTP Email alert and SNMP
 Trap for alarm support; 32 RMON counters
- Security
 - SSL/SSH v2/INGRESS ACL L2/L3
 - Port Security: MAC address entries/Filter/static
 MAC-Port binding
 - Remote Admin: IP address security
 management to prevent unauthorized intruder.
 - Login Security: IEEE802.1X/RADIUS
 - HTTPS for secure access to the web interface
- Static multicast forwarding forward reversed IGMP flow with multicast packets binding with ports for IP

- surveillance application
- IGMP router port to assign query in ring for reversed multicast video flow
- IGMPv1,v2,v3 with Query mode for multimedia;
 GMRP
- Dual image firmware support
- Factory reset button to restore setting to factory default
- Optional environmental monitoring for system input voltage, current, ambient temperature
- Watchdog design to auto reboot switch CPU is found dead
- IP30 metal housing with DIN rail and Wall-mount** design

DIMENSIONS (unit=mm)



SPECIFICATION

Hardware Specification			148,800pps for Fast Ethernet port
Standards	IEEE802.3 10Base-T Ethernet		1,488,000pps for Gigabit Fiber / Gigabit Ethernet port
	IEEE802.3u 100Base-TX	Mac Address	16K MAC address table
	IEEE802.3ab 1000Base-T Ethernet	Jumbo frame	10KB
	IEEE802.3z Gigabit fiber	Connectors	10/100/1000T: 4 x ports RJ-45 with Auto MDI/MDI-X
	IEEE802.3x Flow Control and Back Pressure		function
	IEEE802.3ad Port trunk with LACP		SFP port: 2 x 2.5G/1G selectable cage by software
	IEEE802.1d Spanning Tree		with DDMI supported
	IEEE802.1w Rapid Spanning Tree		RS-232 connector: RJ-45 type; USB x 1
	IEEE802.1s Multiple Spanning Tree		Power & Relay connector: 1 x 6-pole terminal block
	IEEE802.3ad Link Aggregation Control Protocol	Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5/ 5E/ 6 cable
	(LACP)		EIA/TIA-568 100-ohm (100m)
	IEEE802.1AB Link Layer Discovery Protocol (LLDP)		100Base-TX: 2-pair UTP/STP Cat. 5/ 5E/ 6 cable
	IEEE802.1X User Authentication (Radius)		EIA/TIA-568 100-ohm (100m)
	IEEE802.1p Class of Service		1000Base-TX: 2-pair UTP/STP Cat. 5/ 5E/ 6 cable
	IEEE802.1Q VLAN Tag		EIA/TIA-568 100-ohm (100m)
	IEEE802.3at/af Power over Ethernet	Optical Cable	1Gbps:
Switch Architecture	Back-plane (Switching Fabric): 18Gbps		Multi mode: 0 to 550 m, 850 nm (50/125 μm); 0 to 2
Transfer Rate	14,880pps for Ethernet port		km, 1310 nm (50/125 μm)



SPEED WILL DO NOT BOTH CONTROL OF STATE AND THE STATE OF		Single mode: 0 to 10 km/ 30 km/ 40 km, 1310 pm		identification and capability on the LAN
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Page			IGMP	
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Warranty		IEC60068-2-6 (Vibration)	Flow Control	
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LLDP Supports LLDP to allow switch to advise its sent alerting if any abnormal status(-M models)	LACP	members	Monitoring**	·
	LLDP	Supports LLDP to allow switch to advise its		sent alerting it any abnormal status(-M models)



Firmware Update	Supports TFTP firmware update, TFTP backup and restore; HTTP firmware upgrade	Dual Image Firmware	Support dual image firmware function
Configuration upload and download	Supports editable configuration file for system quick installation; Support factory reset button to restore all settings back to factory default; USB port for upload/download configuration by USB		*Future Release **Optional ***Optional DDM SFP required

ORDERING INFORMATION

IGS-3204MGSFP	P/N: 8351-007	
4 10/100/1000T + 2 1G/2.50	G SFP L2+ Industrial Managed Ethernet Sw	vitch, dual 9.5V~60VDC input: -20°C to 60°C

■ IGS-3204MGSFP-E......P/N: 8351-008

4 10/100/1000T + 2 1G/2.5G SFP L2+ Industrial Managed Ethernet Switch, dual 9.5V~60VDC input, -40°C to 75°C

■ IGS-3204MGSFP-M......P/N: 8351-0071

4 10/100/1000T + 2 1G/2.5G SFP L2+ Industrial Managed Ethernet Switch + environmental monitoring, dual 9.5V~60VDC input; -20°C to 60°C

■ IGS-3204MGSFP-M-E......P/N: 8351-0081

4 10/100/1000T + 2 1G/2.5G SFP L2+ Industrial Managed Ethernet Switch + environmental monitoring, dual 9.5V~60VDC input, -40°C to 75°C

OPTIONAL ACCESSORIES

DIN Rail Power

■ MDR-40 Series 40W Single Output Industrial Din Rail Power; 85-264VAC / 120-370VDC Input Range; Cooling by free air convection; RoHS2;

Operating Temp. -20°C~70°C (ambient, derating each output at 4% per degree from 60°C ~ 70°C)

■ MDR-20 Series 20W Single Output Industrial Din Rail Power; 85-264VAC / 120-370VDC Input Range; Cooling by free air convection; RoHS2;

Operating Temp. -20°C~70°C (ambient, derating each output at 2.5% per degree from 50° C ~ 70° C)

Mini GBIC (SFP)

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8330-162X	MINI GBIC 1000SX (LC/0.5km) Transceiver	8330-186	LTSFP-1000BX-20KM Transceiver (WDM 1310)	
8330-163X	MINI GBIC 1000SX2 (LC/2km) Transceiver	8330-187	LTSFP-1000BX-20KM Transceiver (WDM 1550)	
8330-165X	MINI GBIC 1000LX (LC/10km) Transceiver	8330-180	LTSFP-1000BX-40KM Transceiver (WDM 1310)	
8340-0591	MINI GBIC 1000LHX (LC/40km) Transceiver	8330-182	LTSFP-1000BX-40KM Transceiver (WDM 1550)	
8330-166	MINI GBIC 1000XD (LC/50km) Transceiver	8330-181	LTSFP-1000BX-60KM Transceiver (WDM 1310)	
8330-169	MINI GBIC 1000XD (LC/60km) Transceiver	8330-183	LTSFP-1000BX-60KM Transceiver (WDM 1550)	
8330-167	MINI GBIC 1000ZX (LC/80km) Transceiver	8330-184	LTSFP-1000BX-80KM Transceiver (WDM 1490)	
8330-170	MINI GBIC 1000EZX (120km) Transceiver	8330-185	LTSFP-1000BX-80KM Transceiver (WDM 1550)	
8330-168	MINI GBIC 1000T (100m) Transceiver	8330-262	MINI GBIC 2.5G 850nm VCSEL (LC/0.3km) Transceiver	
8330-188	LTSFP-1000BX-10KM Transceiver (WDM 1310)	8330-263	MINI GBIC 2.5G 1310nm FP (LC/2km) Transceiver	
8330-189	LTSFP-1000BX-10KM Transceiver (WDM 1550)	8330-265	MINI GBIC 2.5G 1310nm DFB (LC/15km) Transceiver	
All SFP ended with D are with Diagnostic function				

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