EGM-1204-SFP

12-Port Industrial Gigabit Managed Ethernet Switch
8*10/100/1000Base-T(X) + 4*100/1000Base-(F)X SFP Slots

Managed Gigabit

- 8-port 10/100/1000Base-T(X) Gigabit Ethernet
- 4-port dual rate 100/1000Base-(F)X SFP slots
- Multiusers account for security
- Configuration: http, https, CLI Command, Telnet, SNMP, SSH
- Network redundancy support: G.8032 ERPS v2/ STP/ RSTP/ MSTP
- Supports IP routes for routing function
- Supports RADIUS, TACACS+ authentication protocol
- Supports QoS, LACP bandwidth control
- Supports VLAN, SNMP v1/v2c/v3, ACL, IP source guard for Ethernet security
- Redundant power inputs design
- Operating temperature range
- STD: -10°C ~ 65°C, EOT: -40°C ~ 75°C

Introduction

COMPARTA EGM-1204-SFP Series are 12-port managed Fast Ethernet switch, which provides 8*10/100/1000 Base-T(X) copper ports and 4*100/1000 Base-(F)X SFP slots. EGM-1204-SFP Series are full manageable Layer-2 Ethernet switch series. EGM-1204-SFP Series offers standardized network redundancy ITU-T G.8032 ERPS v2 (Ethernet Ring Protection Switch) protocol, providing <50ms recovery time to the network, to give user the chance to choose your Ethernet switch but not tied up with particular brand's product.

EGM-1204-SFP Series provides comprehensive network security and management capability by supporting Multiusers account, IGMP, GVRP, VLAN, QoS, SNMP, RADIUS, TACACS+, Aggregation(Static, LACP), SSH, SSL, IP source guard to create a highly-secured network environment.

EGM-1204-SFP Series as an industrial Ethernet switch product line, is designed to withstand harsh and extreme environment conditions. With fan less design, EGM-1204-SFP still manage to be applied in extremely polarized temperature, from -40oC to 75oC, making it the best choice in various industrial applications.

Ordering Information

EGM-1204-SFP	12-Port Industrial Gigabit Managed Ethernet Switch 8*10/100/1000Base-T(X) + 4*100/1000Base-(F)X SFP Slot, Standard Operating Temperature: -10° to 65° C
EGM-1204-SFP-T	12-Port Industrial Gigabit Managed Ethernet Switch 8*10/100/1000Base-T(X) + 4*100/1000Base-(F)X SFP Slot, Extended Operating Temperature: -40° to 75° C

COMPARTA
automation+you

COMPARTA Zajdel Sp. z o. o.
ul. Marmurowa 7,
05-077 Warszawa-Wesoła
Poland

Tel: +48 22 610-85-49
Fax: +48 22 610-63-92
email: comparta@comparta.pl
www.comparta.pl

Technology

Standards	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX and 100Base-FX Fast Ethernet IEEE 802.3ab 1000Base-T Gigabit Ethernet IEEE 802.3z 1000Base-X Gigabit Fiber IEEE 802.3x Flow Control IEEE 802.1d STP (Spanning Tree Protocol) IEEE 802.1w RSTP (Rapid Spanning Tree Protocol) IEEE 802.1s MSTP (Multiple Spanning Tree Protocol) ITU-T G.8032 / Y.1344 ERPS v1/v2(Ethernet Ring Protection Switch) IEEE 802.1Q Virtual Local Area Network (VLAN) IEEE 802.1p QoS/CoS Protocol for Traffic Prioritization IEEE 802.1X Network Authentication IEEE 802.1AB Link Layer Discovery Protocol (LLDP) IEEE 802.3ad Link Aggregation (LACP)
Processing Type	Store and Forward
Flow Control	IEEE 802.3x flow control, back pressure flow control

Network Management

Management	IPv4/IPv6, SNMP v1/v2c/v3, LLDP, LLDP-MED, HTTP, HTTPS, SSHv2 telnet, DHCP client, DHCPv6 client, DHCP server, Port Mirror, DNS client/proxy, IP based Access Filter, ICMPv6, syslog, Time Zone /Daylight Saving, NTP client, RMON, sFlow, Loop detection, Console Port, Power lost warning, relay trigger
Security	Port-based/Single/Multi 802.1X, ACL(Port/Rate Limiters/ACE), MAC-based Authentication, VLAN assignment, QoS Assignment, Private VLAN, Guest VLAN, RADIUS accounting, TACACS+, IP MAC binding, WEB/CLI authentication, Authorization (15 levels), Port Security Limit Control, ACLs for filtering/policing/port copy, IP source guard, ARP Inspection
L2 Switching	Port/MAC/Protocol/IP Subnet-based VLAN, GARP/GVRP, Loop Guard, Link Aggregation static/LACP, BPDU guard, Error disable recovery, IGMP snooping v2/v3, MLD snooping v1/v2, IGMP filtering, IPMC throttling / filtering leave proxy, DHCP snooping, G.8032 v1/v2
L3 Switching	DHCP option82, IP routes
QoS	802.1p Queueing, Input priority mapping, Storm control for Unicast/Multicast/Broadcast, Port/Queue/ACL policer, Port egress shaper, Queue egress shaper, DiffServ (DSCP), Tag remarking, Scheduler mode
Power Saving	ActiPHY, PerfectReach, IEEE 802.3az EEE power management
Network Redundancy	STP/RSTP/MSTP, port trunk with LACP, ERPS v1/v2 (<50ms)
Configuration	Http, Https, Telnet, SSH, CLI, TFTP, SNMP v3
System / Diagnostics	Dual Image Protection, PING, PING6
SNMP MIB i Standardy RFC	RFC 2674 VLAN MIB IEEE-802.1Q bridge MIB 2008 RFC 2819 RMON (group 1, 2, 3, and 9) RFC 1213 MIB II RFC 1215 TRAPS RFC 4188 bridge RFC 4292 IP forwarding table RFC 4293 management information base for the Internet Protocol (IP) RFC 5519 multicast group membership discovery RFC 4668 RADIUS auth. client RFC 4670 RADIUS accounting RFC 3635 Ethernet-like RFC 2863 interface group MIB using SMI v2 RFC 3636 802.3 MAU RFC 4133 entity MIB v3 RFC 3411 SNMP management frameworks RFC 3414 user-based security model for SNMPv3 RFC 3415 view-based access control model for SNMP RFC 2613 SMON – PortCopy IEEE 802.1 MSTP IEEE 802.1AB LLDP-MIB (LLDP MIB included in a clause of the STD) IEEE 802.3ad (LACP MIB included in a clause of the STD) IEEE 802.1X (PAE MIB included in a clause of the STD) TIA 1057 LLDP-MED (MIB is part of the STD)

COMPARTA
automation+you

COMPARTA Zajdel Sp. z o. o.
ul. Marmurowa 7,
05-077 Warszawa-Wesoła
Poland

Tel: +48 22 610-85-49
Fax: +48 22 610-63-92
email: comparta@comparta.pl
www.comparta.pl

Switch Properties

Switching Fabric (Back-Plane)	24 Gbps
Priority Queues	8
Max. Number of VLANs	4095
VLAN ID Range	VID 1 to 4095
Memory Buffer	4M bity
Jumbo Frame	9.6Kbytes
MAC Table Size	8K
IGMP Group	1024
Transfer Rate	14,880pps dla Ethernet Port 148,800pps dla Fast Ethernet Port 1,488,000pps for Gigabit Ethernet port

Interface

RJ45	8*10/100/1000Base-T(X), auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection
Fiber Port	4*100/1000Base-(F)X SFP slots
Wavelength	Depends on SFP modules
LED	System: Power 1, Power 2, Master, Ring, Fault Ethernet ports: Speed/Link/Active SFP: Link/Active
RS232 Serial Console	1*RS232 in RJ45 connector with console cable, baud rate 115,200bps,8,N,1
Relay Contact	24 VDC, 1A resistive
Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5 cable EIA/TIA-568 100-ohm (100m) 100Base-TX: 2-pair UTP/STP Cat. 5 cable EIA/TIA-568 100-ohm (100m) 1000Base-T: 4-pair UTP/STP Cat.5/5E cable; EIA/TIA-568 100-ohm (100m)
Optical Cable	Multi-mode cable - 50/125um or 62.5/125um, Single-mode cable - 9/125um or 10/125um

Power Requirements

Input Voltage	Dual 12-48VDC redundant power inputs
Power Connection	1 removable 6-contact terminal block
Overload Current Protection	Yes (Slow-Blow Fuse)
Reverse Polarity Protection	Yes
System Power Consumption	Max. 15W full loading

Mechanical Characteristics

Housing	Metal, IP30 protection
Dimensions (W x H x D)	54 x 142 x 99 mm (2.1 x 5.6 x 3.9 inch)
Weight	Unit weight: 0.90kg (1.92 lb), Shipping weight: 1.30kg (2.80 lb)
Mounting	DIN-Rail Mounting, Wall Mounting

Environmental Limits

Operating Temperature	STD: -10°C ~ 65°C (14°F ~ 149°F) EOT: -40°C ~ 75°C (-40°F ~ 167°F)
Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)
Ambient Relative Humidity	5 to 95%, (non-condensing)

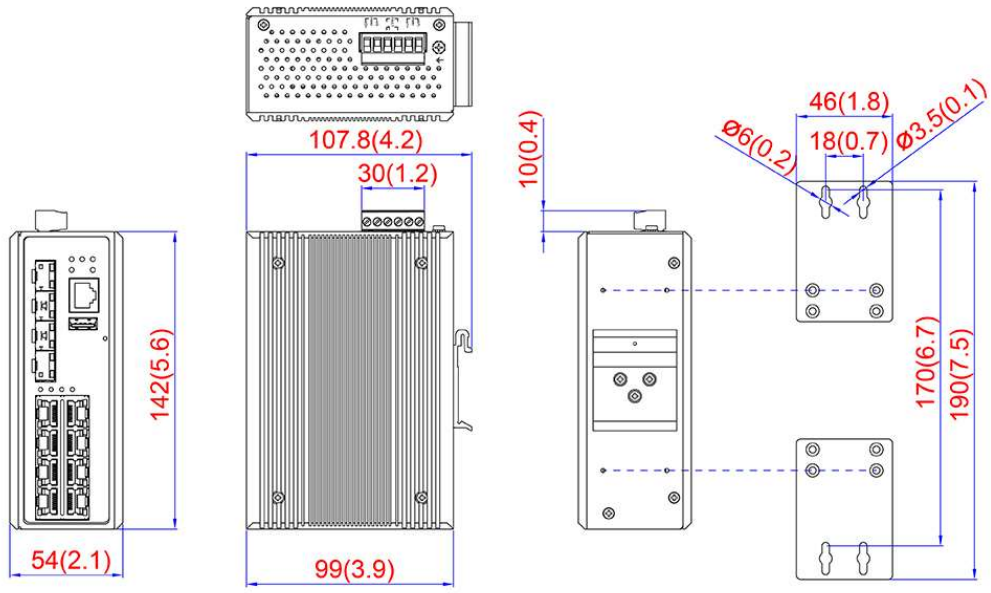
COMPARTA
automation+you

COMPARTA Zajdel Sp. z o. o.
ul. Marmurowa 7,
05-077 Warszawa-Wesoła
Poland

Tel: +48 22 610-85-49
Fax: +48 22 610-63-92
email: comparta@comparta.pl
www.comparta.pl

Regulatory Approvals	
EMI	FCC Part 15 Subpart B Class A, CE EN55022/EN61000-6-4 Class A
EMS	CE EN55024/EN61000-6-2 Class A: IEC61000-4-2 (ESD), IEC61000-4-3 (RS), IEC61000-4-4 (EFT), IEC61000-4-5 (Surge), IEC61000-4-6 (CS), IEC61000-4-8 (Magnetic Field)
Free Fall	IEC60068-2-32
Shock	IEC60068-2-27
Vibration	IEC60068-2-6
Green	RoHS Compliant
CE	Yes
UL	UL61010-1, UL61010-2-201
Warranty	5 Years

Dimensions



Unit: mm (inch)

Din-rail

Wall-mount

Packet Contents

1 EGM-1204-SFP(-T) IndustrialEthernet switch
1 RJ45 (Male) to DB-9 RS-232 (Female) serial console cable
2 Wall-mount installation parts
1 Quick installation guide (printed)

COMPARTA
automation+you

COMPARTA Zajdel Sp. z o. o.
ul. Marmurowa 7,
05-077 Warszawa-Wesoła
Poland

Tel: +48 22 610-85-49
Fax: +48 22 610-63-92
email: comparta@comparta.pl
www.comparta.pl