# **entaira**®

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### LMP-0702G-SFP-24-V2 Series

7-Port Industrial Gigabit PoE+ Light Layer 3 Managed Ethernet Switch, w/4\*10/100/1000Tx (30W/Port), 1\*10/100/1000Tx, and 2\*100/1000 SFP Slots, 12~55VDC Power Input; Version 2 Hardware

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#### Features

- Supports 4\*10/100/1000Tx IEEE 802.3at/af Compliant with 30W/Port, 1\*10/100/1000Tx RJ45 Port, and 2\*100/1000 SFP Slots
- Network Redundancy Support: RSTP/MSTP, and G.8032 ERPS v1/v2 (Recovery Time <50ms)</p>
- Configuration: Web Console, Telnet, CLI Command
- ► Supports IGMP v1/v2/v3, up to 1024 Groups
- Supports QoS (IEEE802.1p) and CoS/ToS
- Supports IEEE802.1Q VLAN, SNMP v1/v2c
- Power Input: 12~55VDC in 6-Pin Terminal Block
- Reverse Polarity Protection
- IP30 Protection
- DIN-Rail or Wall Mountable
- Operating Temperature Range
- STD: -10° to 65°C, EOT: -40° to 75°C
- ► 5-Year Warranty

#### INTRODUCTION

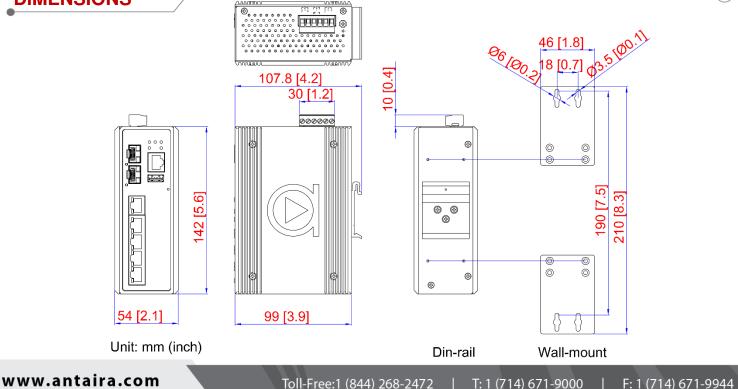
Antaira Technologies' LMP-0702G-SFP-24-V2 series is a 7-port industrial Gigabit PoE+ managed Ethernet switch embedded with 4\*10/100Tx Ethernet ports that support IEEE802.3at/af for a maximum of 30W/port, 1\*10/100/1000Tx Gigabit Ethernet port, and 2\*100/1000 dual rate SFP slots for fiber connection. The LMP-0702G-SFP-24-V2 series is a fully manageable Light Layer 3 Ethernet switch that is pre-loaded with a user-friendly web management console design. It supports the ring network redundancy function using the market's open standard ITU-T G.8032 Ethernet Ring Protection Switch (ERPS) protocol that has a <50ms network recovery time. The advanced network filtering and security functions, such as IGMP, VLAN, QoS, SNMP, RMON, Modbus TCP, and 802.1X/HTTPS/SSH/SSL increase determinism and improve network management for remote SCADA systems or control networks.

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The LMP-0702G-SFP-24-V2 series is IP30 rated and DIN-rail mountable. There are also two wide-operating temperature models for either a standard temperature range (STD: -10°C to 65°C) or an extended temperature range (EOT: -40°C to 75°C). It also provides high EFT and ESD protection for industrial networking applications, such as power/utility, water wastewater, oil/gas/mining, factory automation, security surveillance, ITS and any other outdoor or harsh environment.

### DIMENSIONS



### SPECIFICATIONS

Technology       Port/MAC/Protocol/IP Subnet-based VLAN, VLAN trunking, GARP/GVRP, Loop Guard, Link Aggregation static/LACP, BPDU guard, Error disable recovery, IGMP v1/v2/v3 snooping, MLD snooping, IGMP filtering, IPMC throttling / filtering leave proxy, DHCP snooping, ARP, MEP, G.8032 v1/v2         L3 Switching       DHCP option82, static routes         802.1p Queueing, Input priority mapping, Storm control for Unicast/Multicast/Broadcast, Queue egress shaper, DiffServ (DSCP), Tag remarking, Scheduler mode         Power Saving       ActiPHY, PerfectReach, IEEE 802.3az EEE power management         Network       STP/RSTP/INSTP, port trunk with LACP, ERPS Redundancy v1/v2 (<50ms)         Configuration       Http, Https, Telnet, SSH, CLI, TFTP, SNMP v3         System /       Dual Image Protection, PING, PING6         Switching Fabric)       14Gbps         Priority Queues       8         Processing Type       Store and Forward         Flow Control       IEEE 802.3x flow control, back pressure flow control store and Soupping for Gigabit Ethernet Port         14.88000ps for Fast Ethernet Port       148bps of Ethernet Port         14.8800pps for Fast Ethernet Port       148bps Soupping 4Mbits         Jumbo Frame       9.6Kbytes         MAC Table Size       8K         YLAN Group       4095         IGMP Group       1024         Port Interface       5*10/100/1000Base-TX (30W/Port for Port 1~4 only), auto n		
L2 Switching       VLAN trunking, GARP/GVRP, Loop Guard, Link Aggregation static/LACP, BPDU guard, Error disable recovery, IGMP v1/v2/v3 snooping, MLD snooping, IGMP filtering, IPMC throttling / filtering leave proxy, DHCP snooping, ARP, MEP, G.8032 v1/v2         L3 Switching       DHCP option82, static routes         802.1p Queueing, Input priority mapping, Storm control for Unicast/Multicast/Broadcast, QoS       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       STP/RSTP/MSTP, port trunk with LACP, ERPS Redundancy         v1/v2 (<50ms)       Dual Image Protection, PING, PING6         Switch Properties       Back-Plane (Switching Fabric)         Pricessing Type       Store and Forward         Flow Control       IEEE 802.3x flow control, back pressure flow control         Transfer Rate       14,8800pps for Fast Ethernet Port         14,8800pps for Gigabit Ethernet Port       14,488,00pps for Gigabit Ethernet Port         Memory Buffer       4Mbits         Jumbo Frame       9.6(kbytes         MAC Table Size       8K         VLAN Group       4095         IGMP Group       1024         Port Interface       5*10/100/1000Base-TX (30W/Port for Port 1~4 only), auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection         <	Technology	
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       STP/RSTP/MSTP, port trunk with LACP, ERPS Redundancy         v1/v2 (<50ms)       Configuration         Http, Https, Telnet, SSH, CLI, TFTP, SNMP v3         System / Diagnostics       Dual Image Protection, PING, PING6         Switch Properties         Back-Plane (Switching Fabric)       14Gbps         Priority Queues       8         Processing Type       Store and Forward         Flow Control       IEEE 802.3x flow control, back pressure flow control         Transfer Rate       14,880pps for Ethernet Port 1,488,000pps for Ethernet Port         Memory Buffer       4Mbits         Jumbo Frame       9.6Kbytes         MAC Table Size       8K         VLAN Group       4095         IGMP Group       1024         Port Interface       5*10/100/1000Base-TX (30W/Port for Port 1~4 only), auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection         SFP Port       2*100/1000 SFP Slots         RS232 Serial Console       1*RS232 in RJ45         Console       1*RS232 in RJ45 <th>L2 Switching</th> <th>VLAN trunking, GARP/GVRP, Loop Guard, Link Aggregation static/LACP, BPDU guard, Error disable recovery, IGMP v1/v2/v3 snooping, MLD snooping, IGMP filtering, IPMC throttling / filtering leave proxy, DHCP</th>	L2 Switching	VLAN trunking, GARP/GVRP, Loop Guard, Link Aggregation static/LACP, BPDU guard, Error disable recovery, IGMP v1/v2/v3 snooping, MLD snooping, IGMP filtering, IPMC throttling / filtering leave proxy, DHCP
Costcontrol for Unicast/Multicast/Broadcast, Port/Queue/ACL policer, Port egress shaper, Queue egress shaper, DiffServ (DSCP), Tag remarking, Scheduler modePower SavingActiPHY, PerfectReach, IEEE 802.3az EEE power managementNetworkSTP/RSTP/MSTP, port trunk with LACP, ERPS RedundancyRedundancyv1/v2 (<50ms)	L3 Switching	DHCP option82, static routes
Power Saving         power management           Network         STP/RSTP/MSTP, port trunk with LACP, ERPS           Redundancy         v1/v2 (<50ms)           Configuration         Http, Https, Telnet, SSH, CLI, TFTP, SNMP v3           System /         Dual Image Protection, PING, PING6           Diagnostics         Dual Image Protection, PING, PING6           Switch Properties         Back-Plane           Back-Plane         14Gbps           (Switching Fabric)         Priority Queues           Processing Type         Store and Forward           Flow Control         IEEE 802.3x flow control, back pressure flow control           Transfer Rate         14,880pps for Ethernet Port           14,880pps for Fast Ethernet Port         1,488,000pps for Gigabit Ethernet Port           Jumbo Frame         9.6Kbytes           MAC Table Size         8K           VLAN Group         4095           IGMP Group         1024           Port Interface         5*10/100/1000Base-TX (30W/Port for Port 1~4 only), auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection           SFP Port         2*100/1000 SFP Slots           RS232 Serial         1*RS232 in RJ45           Console         System: Power 1, Power 2, Master, Ring, Fault           LED Indicators <td< th=""><th>QoS</th><th>control for Unicast/Multicast/Broadcast, Port/Queue/ACL policer, Port egress shaper, Queue egress shaper, DiffServ (DSCP), Tag remarking, Scheduler mode</th></td<>	QoS	control for Unicast/Multicast/Broadcast, Port/Queue/ACL policer, Port egress shaper, Queue egress shaper, DiffServ (DSCP), Tag remarking, Scheduler mode
Redundancyv1/v2 (<50ms)	Power Saving	power management
ConfigurationHttp, Https, Telnet, SSH, CLI, TFTP, SNMP v3System / DiagnosticsDual Image Protection, PING, PING6Switch PropertiesDual Image Protection, PING, PING6Back-Plane (Switching Fabric)14GbpsPriority Queues8Processing TypeStore and ForwardFlow ControlIEEE 802.3x flow control, back pressure flow controlTransfer Rate148,800ps for Ethernet Port14,88,00pps for Fast Ethernet PortMemory Buffer4MbitsJumbo Frame9.6KbytesMAC Table Size8KVLAN Group4095IGMP Group1024Port Interface5*10/100/1000Base-TX (30W/Port for Port 1~4 only), auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connectionSFP Port2*100/1000 SFP SlotsRS232 Serial Console1*RS232 in RJ45LED IndicatorsSystem: Power 1, Power 2, Master, Ring, Fault Ethernet Ports: Speed/Link/Active	Network	
System / Diagnostics       Dual Image Protection, PING, PING6         Switch Properties       Dual Image Protection, PING, PING6         Switch Properties       Back-Plane (Switching Fabric)       14Gbps         Priority Queues       8       Processing Type       Store and Forward         Flow Control       IEEE 802.3x flow control, back pressure flow control         Transfer Rate       14,880pps for Ethernet Port         Transfer Rate       148,800pps for Gigabit Ethernet Port         Memory Buffer       4Mbits         Jumbo Frame       9.6Kbytes         MAC Table Size       8K         VLAN Group       4095         IGMP Group       1024         Port Interface       5*10/100/1000Base-TX (30W/Port for Port 1~4 only), auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection         SFP Port       2*100/1000 SFP Slots       RS232 Serial Console       1*RS232 in RJ45         LED Indicators       System: Power 1, Power 2, Master, Ring, Fault Ethernet Ports: Speed/Link/Active		
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Diagnostics       14Gbps         Switch Properties       14Gbps         Back-Plane (Switching Fabric)       14Gbps         Priority Queues       8         Processing Type       Store and Forward         Flow Control       IEEE 802.3x flow control, back pressure flow control         Transfer Rate       14,880pps for Ethernet Port         14,8800pps for Fast Ethernet Port       1,488,000pps for Gigabit Ethernet Port         Memory Buffer       4Mbits         Jumbo Frame       9.6Kbytes         MAC Table Size       8K         VLAN Group       4095         IGMP Group       1024         Port Interface       5*10/100/1000Base-TX (30W/Port for Port 1~4 only), auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection         SFP Port       2*100/1000 SFP Slots         RS232 Serial Console       1*RS232 in RJ45         System: Power 1, Power 2, Master, Ring, Fault         LED Indicators       Ethernet Ports: Speed/Link/Active		Dual Image Protection, PING, PING6
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(Switching Fabric)       14Gbps         Priority Queues       8         Processing Type       Store and Forward         Flow Control       IEEE 802.3x flow control, back pressure flow control         Transfer Rate       14,880pps for Ethernet Port         14,88,000pps for Fast Ethernet Port       1,488,000pps for Gigabit Ethernet Port         Memory Buffer       4Mbits         Jumbo Frame       9.6Kbytes         MAC Table Size       8K         VLAN Group       4095         IGMP Group       1024         Port Interface       5*10/100/1000Base-TX (30W/Port for Port 1~4         ethernet Port       0nly), auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection         SFP Port       2*100/1000 SFP Slots         RS232 Serial Console       1*RS232 in RJ45         LED Indicators       System: Power 1, Power 2, Master, Ring, Fault		
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Flow Control       IEEE 802.3x flow control, back pressure flow control         Transfer Rate       14,880pps for Ethernet Port         14,88,00pps for Fast Ethernet Port       14,88,000pps for Gigabit Ethernet Port         Memory Buffer       4Mbits         Jumbo Frame       9.6Kbytes         MAC Table Size       8K         VLAN Group       4095         IGMP Group       1024         Port Interface       5*10/100/1000Base-TX (30W/Port for Port 1~4 only), auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection         SFP Port       2*100/1000 SFP Slots         RS232 Serial Console       1*RS232 in RJ45         LED Indicators       System: Power 1, Power 2, Master, Ring, Fault		8
Control       control         Transfer Rate       14,880pps for Ethernet Port         148,800pps for Fast Ethernet Port       1,488,000pps for Gigabit Ethernet Port         Memory Buffer       4Mbits         Jumbo Frame       9.6Kbytes         MAC Table Size       8K         VLAN Group       4095         IGMP Group       1024         Port Interface       5*10/100/1000Base-TX (30W/Port for Port 1~4         only), auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection         SFP Port       2*100/1000 SFP Slots         RS232 Serial Console       1*RS232 in RJ45         LED Indicators       System: Power 1, Power 2, Master, Ring, Fault	Processing Type	
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Jumbo Frame       9.6Kbytes         MAC Table Size       8K         VLAN Group       4095         IGMP Group       1024         Port Interface       5*10/100/1000Base-TX (30W/Port for Port 1~4 only), auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection         SFP Port       2*100/1000 SFP Slots         RS232 Serial Console       1*RS232 in RJ45         LED Indicators       System: Power 1, Power 2, Master, Ring, Fault	Transfer Rate	148,800pps for Fast Ethernet Port
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IGMP Group       1024         Port Interface       5*10/100/1000Base-TX (30W/Port for Port 1~4 only), auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection         SFP Port       2*100/1000 SFP Slots         RS232 Serial Console       1*RS232 in RJ45         LED Indicators       System: Power 1, Power 2, Master, Ring, Fault Ethernet Ports: Speed/Link/Active		-
Port Interface         Ethernet Port       5*10/100/1000Base-TX (30W/Port for Port 1~4 only), auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection         SFP Port       2*100/1000 SFP Slots         RS232 Serial Console       1*RS232 in RJ45         LED Indicators       System: Power 1, Power 2, Master, Ring, Fault Ethernet Ports: Speed/Link/Active		
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Ethernet Port       only), auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection         SFP Port       2*100/1000 SFP Slots         RS232 Serial Console       1*RS232 in RJ45         System: Power 1, Power 2, Master, Ring, Fault       Ethernet Ports: Speed/Link/Active	Port Interface	
RS232 Serial Console       1*RS232 in RJ45         LED Indicators       System: Power 1, Power 2, Master, Ring, Fault Ethernet Ports: Speed/Link/Active	Ethernet Port	only), auto negotiation speed, Full/Half duplex
Console         1*RS232 in RJ45           LED Indicators         System: Power 1, Power 2, Master, Ring, Fault Ethernet Ports: Speed/Link/Active	SFP Port	2*100/1000 SFP Slots
LED Indicators Ethernet Ports: Speed/Link/Active		1*RS232 in RJ45
	LED Indicators	Ethernet Ports: Speed/Link/Active

Drotoction	
Protection	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5 cable
Network 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)
Mechanical Chara	cteristics
Housing	Metal, IP30 protection
Dimensions	54 x 142 x 99 mm (W x H x D)
Weight	Unit: 1.9 lbs Shipping: 2.7 lbs
Mounting	DIN-Rail, Wall Mounting
Power Requirement	nt
Input Voltage	12~55VDC Redundant Input
Power Connection	1 removable 6-contact terminal block
Relay Contact	24VDC, 1A resistive
Overload Current Protection	Present
Reverse Polarity Protection	Present
PoE Pin	V+, V+, V-, V-, for pin 1, 2, 3, 6 (Endspan,
Assignment PoE Power Budget	Mode A) 90W@12VDC
	120W@24-55VDC
System Power Consumption	7.5W
<b>Environmental Lin</b>	nits
Operating	STD: -10°C to 65°C
Temperature	EOT: -40°C to 75°C
Storage Temperature	-40°C to 85°C
Ambient Relative Humidity	5% to 95%, (non-condensing)
Regulatory Approvals	
EMI	FCC Part 15 Subpart B Class A, CE EN55032/EN61000-6-4 Class A
EMS	CE EN55035/EN61000-6-2 Class A, IEC61000-4-2,3,4,5,6,8
Free Fall	IEC60068-2-32
Shock	IEC60068-2-27
Vibration	IEC60068-2-6
Green	RoHS Compliant
Certifications	FCC, CE, UL 61010-1, 61010-2-201
Warranty	5 Years

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## ORDERING INFO

LMP-0702G-SFP-24-V2	7-Port Industrial Gigabit PoE+ Managed Ethernet Switch, w/4*10/100/1000Tx (30W/Port), 1*10/100/1000Tx, and 2*100/1000 SFP Slots, 12~55VDC Power Input; Version 2 Hardware
LMP-0702G-SFP-24-T-V2	7-Port Industrial Gigabit PoE+ Managed Ethernet Switch, w/4*10/100/1000Tx (30W/Port), 1*10/100/1000Tx, and 2*100/1000 SFP Slots, 12~55VDC Power Input: Version 2 Hardware: EOT: -40°C to 75°C