

## H8042F-12

Super Voltage Booster -- 12V/24V/48VDC Power input, Rugged Industrial 4 port Gigabit POE Injector, 4x10/100/1000M TX PSE (802.3af/at POE+), 2x100/1000M SFP, Boost Voltage from 12/24/48VDC to 55VDC, Voltage input range 12-56VDC, Operating temp: -40°C to +75°C

### OEM/ODM Options



Black



White

Available Case color



H8042F-12

### Other Models also available:

H8042CF-12 --- Super Voltage Booster, 12/24/48 VDC In, 4 port Giga POE+ Injector, with 4xGiga POE TX + TX/SPF Combo + 1x 100/1000M SFP

H8042TF-12 --- Super Voltage Booster, 12/24/48 VDC, 4 port Giga POE+ Injector, with 4xGiga POE TX + 10/100/1000M TX + 100/1000M SFP

### Introduction

This Super Voltage Booster --- The high power 4 port industrial POE+ Injector is equipped with our high efficiency ColdDesign technology which allows low input voltage, such as 12/24/48VDC be boost up to 55VDC to meet IEEE802.3at requirement. The ColdDesign technology will not only boost up Input Voltage, also reduce the excessive heat problem to a minimum. It accepts the input voltage as low as 12VDC, to be boost up to 55VDC. And it is also equipped with 2 port SFP fiber that can be used as fiber redundancy, cascaded to your other devices to expand your network application. It is being rigorously tested for your Security, Transportation and Telco application.

# Specification

<b>IEEE Standard</b>	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Fast Ethernet IEEE 802.3ab 1000Base-T Gigabit Ethernet IEEE 802.3z 1000Base-X Gigabit Ethernet IEEE802.3x Flow Control and Back Pressure, IEEE802.3af for POE IEEE802.3at for POE+
<b>Switch Architecture</b>	Back-plane (Switching Fabric): 12Gbps
<b>Data Processing</b>	Store and Forward
<b>Flow Control:</b>	IEEE 802.3x Flow Control and Back Pressure
<b>Jumbo Frame</b>	9KB
<b>MAC address Table Size</b>	1K
<b>Packet Buffer Size</b>	1M
<b>Network Connector :</b>	4xRJ-45 10/100/1000BaseT(X) auto negotiation, 4 Giga POE+ 802.3at/af PSE port Auto MDI/MDI-X function, Full/Half duplex 2 x SFP 100/1000M BaseX
<b>Network Cable</b>	UTP/STP above Cat.5e Cable
	EIA/TIA-568 10-ohm (100m)
	Fiber Cable (Multi-mode):50/125um,62.5/125um Fiber Cable (Single-mode): 9/125um
<b>Protocol</b>	CSMA/CD
<b>LED</b>	PW1(Power 1) Green, PW2(Power 2) Green, ERR( Fault ) Amber,
	TX/RJ-45 port: LNK (Link/Active) Green, SPD(Speed) 10/100(OFF ) ,1000 (Green)
	SFP Fiber Per port: Link (Green) Active Flash
<b>DIP Switch</b>	DIP 1: OFF: Port 5 SFP ON (DEFAULT) ON: Port 5 SFP OFF DIP 2: OFF: SFP 1000M (DEFAULT) ON: SFP 100M
<b>Reserve polarity protection</b>	Present
<b>Overload current protection</b>	Present
<b>Power Supply</b>	Redundant Dual DC 12V-56V Power Input
<b>Power Consumption</b>	5.76W@12/24/48 VDC full load, Without POE

<b>Alarm Relay Contact</b>	Relay outputs with current carrying capacity of 1 A @24VDC, Relay in short circuit mode when 2 powers are connected. in open circuit mode when only one power supply is connected
<b>POE power</b>	POE power per port 30watts. Maximum 36Watts per port at 12/24/48VDC input Maximum total power 126Watts at 24VDC and 48VDC power input. Maximum total power 65W at 12VDC power input
<b>Removable Terminal Block</b>	Provide 2 Redundant power , Alarm relay contact ,6 Pin Wire range: 0.34mm <sup>2</sup> to 2.5mm <sup>2</sup> Solid wire (AWG):12-24/14-22 Stranded wire(AWG): 12-24/14-22 Torque:5lb-In/0.5Nm/0.56Nm Wire Strip length: 7-8mm
<b>Operating Temperature</b>	-40°C~75°C fully tested.
<b>Operating Humidity</b>	5% to 95% (Non-condensing)
<b>Storage Temperature</b>	-40°C~85°C
<b>MTBF (mean time between failure)</b>	510,304 hrs ( MIL-HDBK-217F) at 25°C
<b>Housing</b>	Rugged Metal ,IP30 Protection
<b>Case Dimension (L x W x D)</b>	142mmx43mmx105mm (LxWxD)
<b>Installation mounting</b>	DIN Rail mounting and Wall Mounting
<b>Certifications:</b>	
<b>EN55022/24</b>	ITE equipment
<b>EN50155</b>	Railways Applications Electronic Equipment used on Rolling Stock
<b>EN55011</b>	Industrial, Scientific and Medical (ISM) equipment
<b>EN50121-3-2</b>	Railway Applications – Electromagnetic Compatibility – Part 3-2 Rolling Stock - Apparatus
<b>EN50121-4</b>	Railway Applications – Electromagnetic Compatibility – Part4 Emissions and Immunity of the Signaling and Telecommunications Apparatus
<b>Safety</b>	IEC EN60950-1
<b>EMC/EMS</b>	CE, FCC, VCCI
<b>EMI</b>	FCC Part 15 Subpart B Class A, CE EN 55022 Class A
<b>EN 50155 / EN 60068-2-6</b>	Vibration
<b>EN 50155 / EN 60068-2-27</b>	Shock
<b>EN 50155 / EN 60068-2-32</b>	Free Fall

# Housing Dimension

