

# Production Information

# HEST12M Series

## EN50155 Industrial Ethernet Switch



## Features

- ❖ Up to 12 10/100BaseT Ethernet Port (M12 Connector)
- ❖ Ring On Redundant Rapid Recovery System < 15 ms
- ❖ Dual Power Supplies for Power Redundancy, Voltage 24~160VDC (Type:48V/110V)
- ❖ Fanless Cooling Design, Support -40~75°C Operating Temperature, IP67
- ❖ Alarm with One Relay Output (M12 Connector), Current Loading 2A@30V
- ❖ Support Bypass Function to Allow Continuous Communication throughout the Train

## Introduction

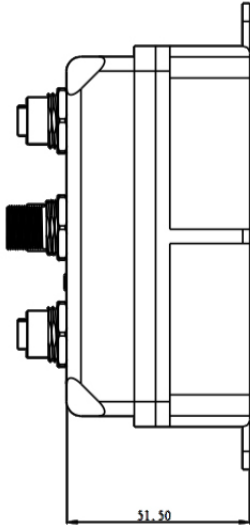
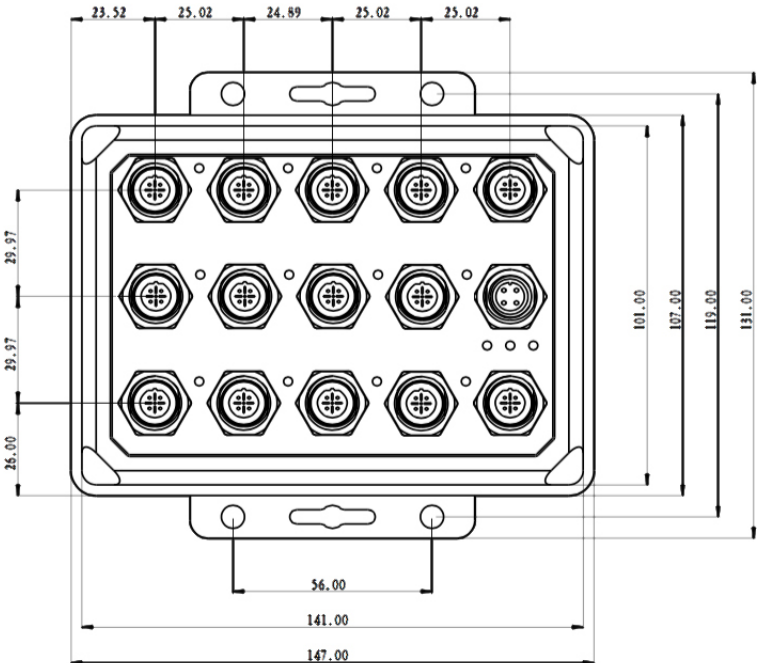
HEST12M series switches are designed for communications between machines/devices inside trains. Compliant with IEC61375 standard and EN51055, these highly compactly-designed industrial switches can meet any hazardous environments while providing robust communication requirements for critical applications such as train traction and/or braking command requirements through these reliable devices.

Support up to 12 10/100BaseT(X) M12 Ethernet ports and dual-powered by 24-160VDC (type:48VDC/110VDC) power supplies, this line of switches provide a full set of network data management functions such as redundancy recovery, VLAN, QoS, IGMP, Trunking, SNMP, etc., in addition to the hardened M12 connector and IP67 enclosure protection. These devices have an average MTBF of 438,000 hours. They all can be wall-mounted.

## Specifications

<b>Technology</b>		<b>Connector</b>	
IEEE Standards:	IEEE802.3、IEEE802.3u、IEEE802.3z、IEEE802.3x、IEEE802.3ad、IEEE802.1p、IEEE802.3ab、IEEE802.1Q、IEEE802.1d、IEEE802.1s、IGMP Snooping	Ethernet port:	12 x 10/100M Ethernet Ports, M12 Connector, 2 of them support Bypass
Processing Type:	Store and Forward	Management port:	1 x Console, M12 Connector
MAC Address:	16k	Alarm:	1 x Alarm, M12 Connector
Management:	Web+CLI	Power supply:	1 x Power Supply Port, M12 connector
RingOn™:	Recovery time<15ms	<b>Mechanics</b>	
Flow Control:	IEEE802.3x Flow Control, Back Pressure Flow Control	Enclosure:	IP67, High Strength Aluminium
Protocol:	IGMP Snooping, GMRP, SNMPv1/v2c/v3, DHCP Client, SNTP, HTTP, HTTPS, Telnet, NTP Client	Installation:	Wall mounted
Software:	<ul style="list-style-type: none"> <li>• System log setting</li> <li>• Web server password setting</li> <li>• IP access control (Accessible IP)</li> <li>• Port setting</li> <li>• IP setting</li> <li>• Time setting (Local Time/NTP Time)</li> <li>• RingOn rapid recovery</li> <li>• Port-based VLAN and 802.1Q VLAN (8 groups for each)</li> <li>• Port Trunking (2 groups)</li> <li>• QoS、802.1P/1Q and ToS /DiffServe</li> <li>• IGMP Snooping</li> <li>• Broadcast Storm control</li> <li>• Traffic control</li> <li>• Port Mirroring</li> <li>• Static MAC Address Forwarding (Unicast and Multicast)</li> <li>• SNMP V1/V2</li> <li>• Diagnostics</li> <li>• Email/Relay Alarm Notification</li> <li>• Flow statistics</li> <li>• MAC Table</li> <li>• Log</li> <li>• Firmware upgrade</li> <li>• Parameters backup</li> <li>• Factory reset</li> </ul>	Dimension:	L* W * H: 147*51.5*107(mm)
		Weight:	950g
		Power:	10W (MAX)
		Cooling:	Fanless
		<b>Environment Limits</b>	
		Storage Temperature:	-40~85°C
		Operation Temperature:	-40~75°C
		Relative Humidity:	5~95%RH
		Ingress Protection:	IP67
		MTBF:	Above 30 Years
<b>Certifications</b>			
Rail Traffic	EN50155, EN50121-3-2	EMI:	FCC Part 15 Subpart B Class A, EN 55022 Class A
		EMS:	EN 61000-4-2 (ESD) Level 3 EN 61000-4-3 (RS) Level 3 EN 61000-4-4 (EFT) Level 3 EN 61000-4-5 (Surge) Level 3 EN 61000-4-6 (CS) Level 3 EN 61000-4-8 EN 61000-4-11
		Freefall:	IEC60068-2-32
		Vibration:	IEC 61373

DIMENSION DRAWING



UNIT:MM

# Ordering Information

HEST12M-VLW	Industrial Ethernet Managed Switch, 12 10/100BaseT(X) M12 ports, -40°C to 75°C operating temperature, Dual Power Input, (Type: 48VDC/110VDC). IP67 protection
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