Winsonic®

NE10001-20842B

10G Copper EN50155 L2 Managed PoE Industrial Switch

Product Features

- 2*10/100/1000/10GBase-T M12 copper uplink ports,
- 8*10/100/1000Base-T M12 copper downlink ports
- 8 downlink Gigabit copper ports support PoE/PoE+/PoE++, compatible with IEEE802.3af/at/bt standards
- Each PoE/PoE+/PoE++ port can supply up to 15W/30W/60W
- Supports ERPS/RSTP & X-Ring Self-healing Ring
- Supports IEEE 802.1X, supports secure access management, enhancing network security

Product Overview

The NE10001-20842B is a 2*10G Copper+8*GE Copper L2 managed Industrial Ethernet Switch specially designed for rail transportation. This product meets the EN50155 industry standard requirements and complies with the IEEE 802.3af/at/bt protocol standards. The Ethernet interface adopts a sturdy and reliable M12 format, making it suitable for scenarios with severe vibrations and impacts. This series of switches has a working temperature range of -40°C to +80°C and features an IP68-rated shell and LED indicators, making it a plug-and-play industrial-grade device. With its exceptional waterproofing and ruggedness, it can adapt to various harsh environments, providing users with a reliable and convenient solution for networking their Ethernet devices. Adopting a wall-mount installation method, it can meet the needs of different application sites.

Product Specifications

Series	NE10001-20842B	
Ports	2 * 10/100/1000/10G Base-T(X) M12 copper X coded female Ethernet ports 8 * 10/100/1000 Base-T(X) M12 copper X coded female Ethernet ports Automatic detection, full/half duplex MDI/MDI-X self adaptive	
	1 * M12 Input power port(dual power redundancy)	
Ethernet Standards	IEEE 802.3: 10Base-T Ethernet; IEEE 802.3u: 100Base-TX Fast Ethernet; IEEE 802.3ab: 1000Base-T Gigabit Ethernet IEEE 802.3an: 1000Base-T Gigabit Ethernet IEEE 802.3x: Follow Control	
Certification	EN50155	
MTBF	300,000 hours	
Warranty	3 years	
Industry Standards	EMI	FCC Part 15 Subpart B Class A,EN 55022 Class A
	EMS	IEC(EN)61000-4-2(ESD): ± 8kV touch discharge, ± 15kV air discharge
		IEC(EN)61000-4-3(RS): 10V/m(80～1000MHz)

		IEC(EN)61000-4-4(EFT) : power cable: ±4kV Data cable: ±2kV;
		IEC(EN)61000-4-5(Surge) : power cable: ±2kV CM//±4kV DM ; Data cable: ±4kV
		IEC(EN)61000-4-6(Radio frequency conduction) : 3V(10kHz~150kHz),10V(150kHz~80MHz)
		IEC(EN)61000-4-16(Common-mode conduction) : 30V cont. 300V,1s
		IEC(EN)61000-4-8
	Shock	IEC 60068-2-27
	Free Fall	IEC 60068-2-32
	Vibration	IEC 60068-2-6
Switching Parameters		
Transmission Method	Store and forward	
Backplane Bandwidth	56G	
MAC capacity	16K	
Switching Latency	<10μs	
Cache	2 Mbit	
Power Consumption	<5W	
Working Temperature		
Working Temperature	-40~80°C(-40~176°F)	
Storage Temperature	-40~85°C(-40~185°F)	
Relative Humidity	5%~95% without condensation	
PoE Features		
PoE Standards	IEEE802.3af/ IEEE802.3at/ IEEE802.3bt	
PoE Ports	8 ports supports PoE++, automatically detects the standards of devices like IEEE802.3af , IEEE802.3at and IEEE802.3bt	
Output Power	IEEE 802.3af: max. 15.4W/port	
	IEEE 802.3at: max. 30W/port,	
	IEEE 802.3bt: max. 90W/port,	
	Total maxW:200W	
POE Priority	When power >200w, POE priority: port No.8>port No.7>port No.6 and so on	
Power Parameters		
Input Voltage	DC48V	
Access Terminal	M12 A male port	
Power Protection	Supports dual power supply redundancy Supports reverse polarity protection	

Mechanical Features	
Shell	Aluminum enclosure
Installation Method	Wall mounted
Cooling Method	Natural cooling, fanless
Weight	1.13kg
Size	186 x 121 x 30mm
LED Indication	
Power Indicator	PWR
Interface Indicator	Copper ports(Link/ACT)

Mechanical Diagram

Size: 186 x 121 x 30mm