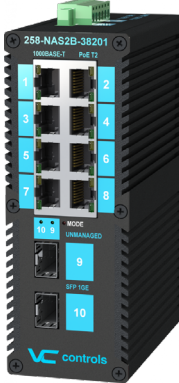
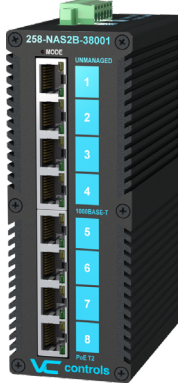
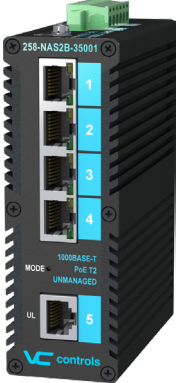

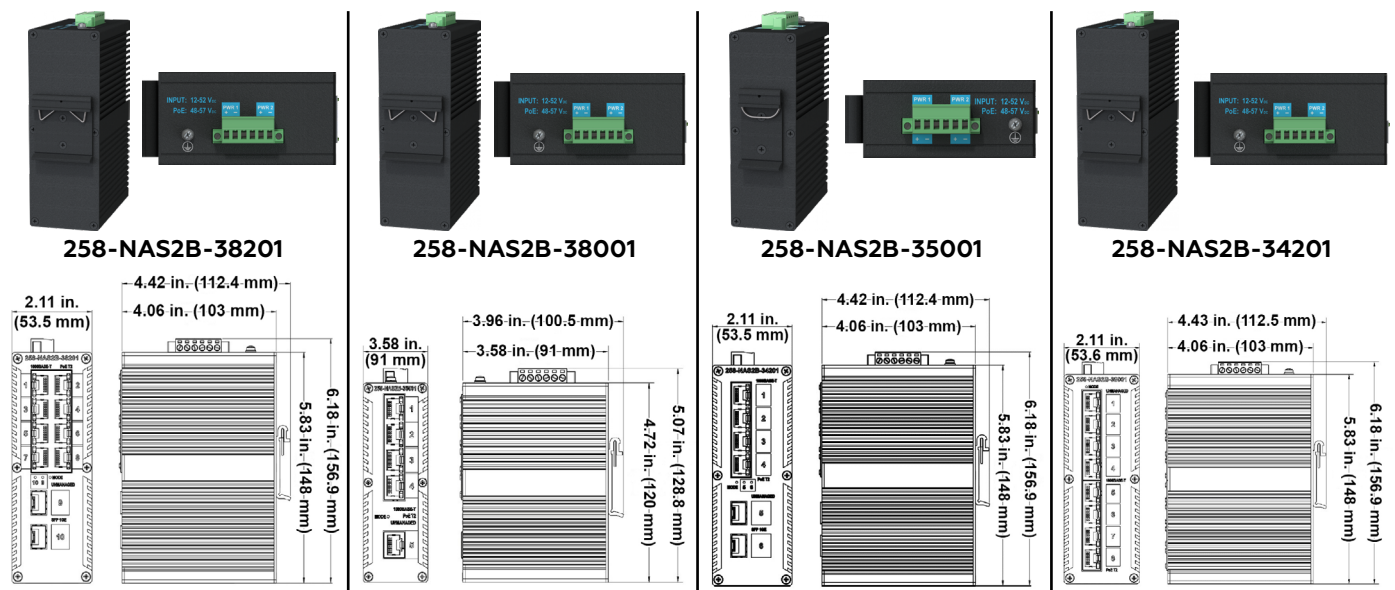


Part Number	Description
258-NAS2B-38201	Industrial Ethernet Switch • 8 TP Ports • 2 SFP Ports • 1000 Mbps • Unmanaged • PoE Type 2
258-NAS2B-38001	Industrial Ethernet Switch • 8 TP Ports • 1000 Mbps • Unmanaged • PoE Type 2
258-NAS2B-35001	Industrial Ethernet Switch • 5 TP Ports • 1000 Mbps • Unmanaged • PoE Type 2
258-NAS2B-34201	Industrial Ethernet Switch • 4 TP Ports • 2 SFP Ports • 1000 Mbps • Unmanaged • PoE Type 2

CHARACTERSTICS

Part Number	258-NAS2B-38201	258-NAS2B-38001	258-NAS2B-35001	258-NAS2B-34201
Switch				
Configuration	8 × 10/100/1000-MBps TP ports	8 × 10/100/1000-MBps TP ports; unmanaged	4 × 10/100/1000 Mbps TP ports	4 × 10/100/1000-MBps TP ports
	2 × 1000-Mb SFP ports (backward incompatible); unmanaged	-	1 × 10/100/1000 Mbps TP uplink port; unmanaged;	2 × 1000-Mb SFP ports (backward incompatible); unmanaged
	PoE Type 2; redundant power input			
Supported Protocols	IEEE 802.3 (10BASE-T); IEEE 802.3u (100BASE-TX); IEEE 802.3ab (1000BASE-T); IEEE 802.3x.			
PHY Transmission Media	10BASE-T: TP, category 3 min (100-m channel max); 100BASE-TX: TP, category 5 min (100-m channel max); 1000BASE-T: TP, category 5 min (100-m channel max).			
	SFP: depends on SFP module used.	-		SFP: depends on SFP module used.
Performance	Bandwidth: 20 Gbps		Bandwidth: 14 Gbps	
	Packet Forwarding Rate: 15 Mpps		Packet Forwarding Rate: 10.5 Mpps	
	Packet Buffer Memory: 2 Mb		Packet Buffer Memory: 1.2 Mb	
	MAC Address Table: 4 k		MAC Address Table: 2 k	
	Frame Size: 9 kB max			
	Negotiation: Auto			
	Crossover: Auto-MDI/MDI-X			
	Flow Control: half-duplex: “back pressure” full-duplex: “pause frames”			
Construction	MTBF: 300000 h (34 yr) min.			
	Ruggedized Aluminum Alloy Housing; Integral Metal DIN-Rail Clip; Protection Class: IP40			
Mounting	35-mm DIN rail (see User Manual)			
Operating Mode Display	Multicolor LEDs (see User Manual)			
Mechanical	Impact: IEC 60068-2-27			
	Free Fall: IEC 60068-2-32			
	Vibration: IEC 60068-2-6			
Environmental	Operating Temperature: -40°C–85°C (-40°F–185°F)			
	Storage Temperature: -40°C–85°C (-40°F–185°F)			
	Relative Humidity: 5% – 95% non-condensing			

	258-NAS2B-38201	258-NAS2B-38001	258-NAS2B-35001	258-NAS2B-34201
EMC	Multimedia Equipment		EN 55032: Class A	
	Electrostatic Discharge	IEC 61000-4-2:	contact: ±8 kV air: ±12 kV	
	Radio-Frequency EMF	IEC 61000-4-3:	10 V/m (80 Hz–1000 MHz)	
	Electrical Fast Transient	IEC61000-4-4:	powersocket: ±4kV dataports: ±2kV	
	Disruptive Surge	IEC61000-4-5:	powersocket: ±2kVDM ±4kVCM dataports: ±2kV	
	Conducted Disturbances, RF	IEC61000-4-6:	3V(10kHz–150kHz) 10V(150kHz–80MHz)	
	Conducted CM Disturbances, RF	IEC61000-4-16:	continuous: 30V(0kHz–150kHz) peak, 1s: 300V(0kHz–150kHz)	
Electrical	Input Voltage Range:		12 V _{DC} – 52 V _{DC}	
	Connector Type:		Screw Terminal (Phoenix Contact)	
	Conductor Size:		1.8 mm (13-AWG) max	
	Power Consumption:		8 W max (non-PoE mode)	
	Redundancy:		Two-Source	
	Input Protection:		Reverse Voltage Protection	
	Grounding		Integral M3 Grounding Terminal	
Electrical, PoE	Technologies Supported:		IEEE802.3af (Type 1) IEEE802.3at (Type 2)	
	PoE Ports: 1-8 Ports		PoE Ports: 1-4 Ports	
	Output Voltage		48 V _{DC} – 57 V _{DC}	
	PoE Type Detection:		Auto	
	Output Power:		IEEE 802.3af: 15.4 W max IEEE 802.3at: 30.0 W max	
	PoE Budget: 240 W (maximum wattage)		PoE Budget: 120 W (maximum wattage)	
	Connector Contacts		+V: p1 p2 –V: p3 p6	Alternative A
Physical	Source Type:		end-span	
	Dimensions:	width: 2.1 in (53.5 mm) [3 DU] depth: 4.1 in (103 mm) height: 5.8 in (148 mm)	width: 1.6 in (40.5 mm) [2.25 DU] depth: 3.6 in (91 mm) height: 4.7 in (120 mm)	width: 2.1 in (53.5 mm) [3 DU] depth: 4.2 in (107 mm) height: 5.8 in (148 mm)
	Weight: net: 1.54 lb. (0.7 kg) packed: 1.72 lb. (0.78 kg)	net: 1.43 lb. (0.65 kg) packed: 1.65 lb. (0.75 kg)	net: 1.21 lb. (0.55 kg) packed: 1.43 lb. (0.65 kg)	net: 1.43 lb. (0.65 kg) packed: 1.65 lb. (0.75 kg)
Code Compliance	FCC CFR47 Part 15 Directive 2011/65/EU (RoHS2)			
Warranty	Lifetime, limited			



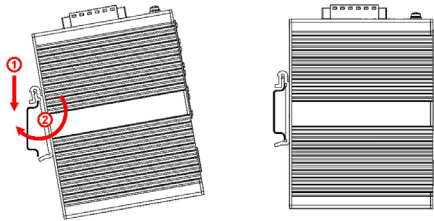
258-NAS Series - USER MANUAL

Installation precautions

To avoid damage to equipment and personal injury caused by improper use, please follow the following precautions:

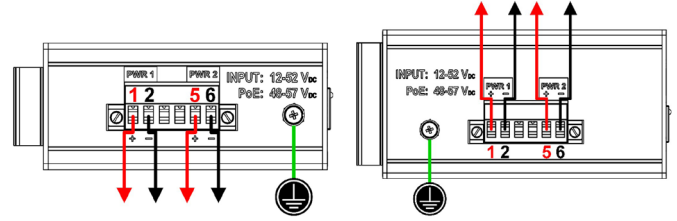
- To avoid damage caused by falling equipment, secure it properly in the intended mounting position.
- When supplying power, ensure the power supply characteristics match the operating voltage range of the equipment.
- When connecting power leads, pay attention to the polarity of the power input terminal contacts.
- To reduce the risk of electric shock, ensure the equipment is properly grounded.
- Never open/disassemble the equipment housing in the field conditions.
- When selecting mounting area for the equipment, avoid environments with high levels of dust.
- When selecting mounting area for the equipment, avoid environments with electromagnetic fields with strength higher than 10 V/m.

Mounting on a DIN Rail



- Verify that the intended for mounting DIN rail is the 35-mm standard.
- Hook the DIN-rail clip on the top edge of the DIN rail (1).
- Pulling the unit down slightly turn it as shown in the diagram until it snaps on the DIN rail (2).
- The correct operating position of the unit and its clip relative to the DIN rail is shown on the right.
- To remove the unit from the DIN rail, follow the reversed procedure – pull the unit down, pull the unit's bottom part off the rail, then unhook the clip from the upper edge of the rail by moving the unit upward.

Powering and Grounding



- Connect an appropriate equipment bonding/grounding conductor to the grounding terminal denoted by the standard symbol (⏏).
- Verify that the power source voltage is within the range specified for the unit (12 V_{DC}–52 V_{DC}).
- For power redundancy two power sources can be connected as shown in the diagram.
- Connect power source leads to the corresponding terminal contacts as shown in the diagram.

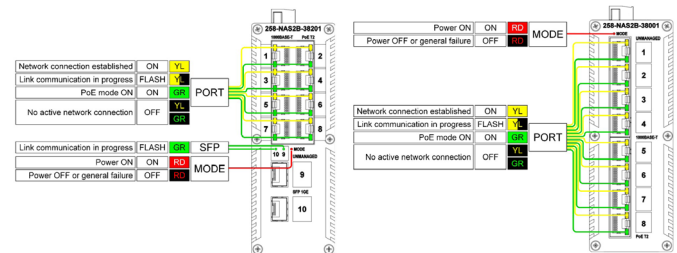
Network Connection

- Suitable equipment cables with minimum transmission performance characteristics for network connection should be four-pair category 3 twisted-pair for 10BASE-T and four-pair category 5 twisted-pair for 100BASE-T and 1000BASE-T, screened or unshielded, straight or crossover.
- Equipment cables used for making network connections shall be terminated with standard 8P8C modular plugs meeting the specifications of the FCC Part 68 sub part F for miniature 8-position plug, unkeyed; use of any other plug constructions that do not meet the above specifications may void the product warranty.

PIN No.	10/100 Mb/s		1000 Mb/s	
1	R _x +	DC+	T _x R _x A+	DC+
2	R _x -	DC+	T _x R _x A-	DC+
3	T _x +	DC-	T _x R _x B+	DC-
4			T _x R _x C+	
5			T _x R _x C-	
6	T _x -	DC-	T _x R _x B-	DC-
7			T _x R _x D+	
8			T _x R _x D-	

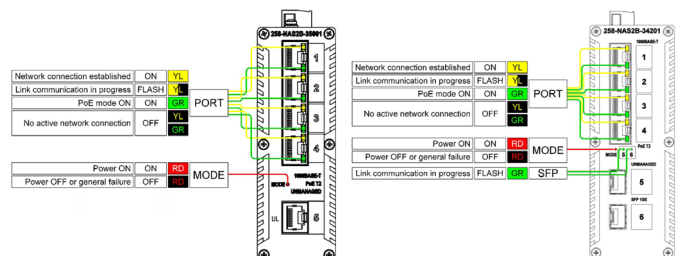
- SFP modules that can be connected to this unit should be 1000-Mbps rated, 100-Mbps SFP modules are incompatible with the interface and would not operate.

System Status Indication



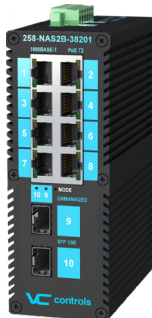
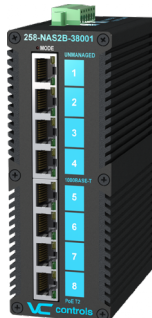

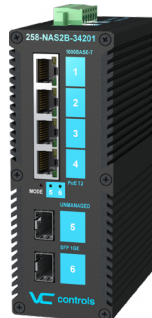
258-NAS2B-38201

258-NAS2B-38001



258-NAS2B-35001

258-NAS2B-34201

PART NUMBER		258-NAS2B-38201	258-NAS2B-38001	258-NAS2B-35001	258-NAS2B-34201
Switch					
Configuration	RJ-45 Port	8 × 10/100/1000 Mbps	8 × 10/100/1000 Mbps	5 × 10/100/1000 Mbps	4 × 10/100/1000 Mbps
	SFP Port	2 × 1 Gbps	-	-	2 × 1 Gbps
	PoE Port	8	8	4	4
Electrical, PoE	PoE Budget (maximum wattage)	240 W		120 W	
	PoE Type	Type 2			
	Output Power	IEEE 802.3af: 15.4 W max			
		IEEE 802.3af: 30.0 W max			
	Output Voltage	48 V _{DC} –57 V _{DC}			
PoE Type Detention	Dynamic Auto Power Allocation				