## **NETWORK EQUIPMENT**

## **Ethernet Switches DIN-Rail Mount Switches**



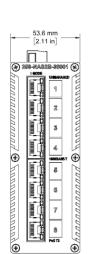
258-NAS2B-38001 Industrial Ethernet Switch • 8 TP Ports • 1000 Mb/s • Unmanaged • PoE Type 2

#### **CHARACTERISTICS**

	8 × 10/100/1000 Mb/s	TP ports;		1		
Configuration:	unmanaged; PoE Type 2;			258-NAS2B-3		
	redundant power input.					
	IEEE 802.3i (10BASE-T);					
Supported protocols:	IEEE 802.3u (100BASE	**				
Supported protocols:	IEEE 802.3ab (1000BASE-T);					
	IEEE 802.3x.					
PHY transmission	10BASE-T: TP, category 3 min (100-m channel max);					
media:	100BASE-TX: TP, category 5 min (100-m channel max);					
Performance:	1000BASE-T: TP, category 5 min (100-m channel max). bandwidth: 20 Gb/s;					
	packet forwarding rate					
	packet buffer memory:	2 Mb;				
	MAC address table:	4 K;		7		
	frame size: negotiation:	9 kB max; auto;				
	crossover:	auto, auto-MDI/MDI-X;		PoET		
	flow control:	half-duplex: "back press	ure";	(±) VC cont		
		full-duplex: "pause fram	es";			
	MTBF: 300000 h (34 yr) min.					
Constanting	ruggedized aluminum					
Construction:	integral metal DIN-rail protection class: IP40.	• • • • • • • • • • • • • • • • • • • •				
Mounting:	35-mm DIN rail (see U			IN		
	33-IIIII DIN Tait (see O	sei Manuatj.				
Operating mode	multicolor LEDs (see U	Jser Manual).				
display:	 	27				
Mechanical:	impact: IEC 60068-2 free fall: IEC 60068-2	,				
riechanicat.	vibration: IEC 60068-2					
	operating temperature: -40°C–85°C (-40°F–185°F);					
Environmental:	storage temperature:	-40°C-85°C (-40°F-185°	F);			
	relative humidity:	5 %–95 % non-condensing	g.			
	multimedia equipment		Class A;	.0.1.)		
	electrostatic discharge	E IEC 61000-4-2:	contact: air:	±8 kV; ±12 kV.		
			an.	10 V/m (80		
	radio-frequency EMF	IEC 61000-4-3:				
	radio-frequency EMF electrical fast transien		power socke			
EMG	electrical fast transien	t IEC 61000-4-4:	data ports:	et: ±4 kV; ±2 kV;		
EMC:			data ports:	et: ±4 kV; ±2 kV; et: ±2 kV DM;		
EMC:	electrical fast transien	t IEC 61000-4-4:	data ports: power socke	et: ±4 kV; ±2 kV;		
EMC:	electrical fast transien	t IEC 61000-4-4:	data ports:	et: ±4 kV; ±2 kV; et: ±2 kV DM; ±4 kV CM;		
EMC:	electrical fast transien disruptive surge conducted disturbance	t IEC 61000-4-4:  IEC 61000-4-5:  es, RF IEC 61000-4-6:	data ports: power socke data ports:	et: ±4 kV; ±2 kV; et: ±2 kV DM; ±4 kV CM; ±2 kV; 3 V (10 kHz 10 V (150 kl		
EMC:	electrical fast transien disruptive surge conducted disturbance	t IEC 61000-4-4:	data ports: power socke data ports: continuous:	et: ±4 kV; ±2 kV; et: ±2 kV DM; ±4 kV CM; ±2 kV; 3 V (10 kHz 10 V (150 kHz		
EMC:	electrical fast transien disruptive surge conducted disturbance conducted CM disturba	t IEC 61000-4-4: IEC 61000-4-5: es, RF IEC 61000-4-6: ances, RF IEC 61000-4-16:	data ports: power socke data ports:	et: ±4 kV; ±2 kV; et: ±2 kV DM; ±4 kV CM; ±2 kV; 3 V (10 kHz 10 V (150 kl		
EMC:	electrical fast transien disruptive surge conducted disturbance conducted CM disturbance input voltage range: 12	t IEC 61000-4-4: IEC 61000-4-5: es, RF IEC 61000-4-6: ances, RF IEC 61000-4-16: V <sub>DC</sub> -52 V <sub>DC</sub> ;	data ports: power socke data ports: continuous: peak, 1 s:	et: ±4 kV; ±2 kV; et: ±2 kV DM; ±4 kV CM; ±2 kV; 3 V (10 kHz 10 V (150 kHz		
EMC:	electrical fast transiendisruptive surge  conducted disturbance conducted CM disturbance input voltage range: 12 connector type: sci conductor size: 1.8	t IEC 61000-4-4:  IEC 61000-4-5:  es, RF IEC 61000-4-6:  ances, RF IEC 61000-4-16:  V <sub>DC</sub> -52 V <sub>DC</sub> ;  rew terminal (Phoenix Contact  B-mm (13-AWG) max;	data ports: power socke data ports: continuous: peak, 1 s:	et: ±4 kV; ±2 kV; et: ±2 kV DM; ±4 kV CM; ±2 kV; 3 V (10 kHz 10 V (150 kHz		
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	electrical fast transiend disruptive surge conducted disturbance conducted CM disturbance conducted CM disturbance input voltage range: 12 connector type: sci conductor size: 1.8 power consumption: 5 vredundancy: tw	t IEC 61000-4-4:  IEC 61000-4-5:  es, RF IEC 61000-4-6:  ances, RF IEC 61000-4-16:  V <sub>DC</sub> -52 V <sub>DC</sub> ;  rew terminal (Phoenix Contact)  rew terminal (Phoenix Contact)  rew max (non-PoE mode);  re-source;	data ports: power socke data ports: continuous: peak, 1 s:	et: ±4 kV; ±2 kV; et: ±2 kV DM; ±4 kV CM; ±2 kV; 3 V (10 kHz 10 V (150 kHz) 300 V (0 kHz) 300 V (0 kHz)		
	electrical fast transient disruptive surge  conducted disturbance conducted CM disturbance input voltage range: 12 connector type: sci conductor size: 1.8 power consumption: 5 vredundancy: two input protection: retailed.	t IEC 61000-4-4:  IEC 61000-4-5:  es, RF IEC 61000-4-6:  ances, RF IEC 61000-4-16:  V <sub>DC</sub> -52 V <sub>DC</sub> ;  rew terminal (Phoenix Contacts)  W max (non-PoE mode);  vo-source;  verse voltage protection;	data ports: power socked data ports: continuous: peak, 1 s:	et: ±4 kV; ±2 kV; et: ±2 kV DM; ±4 kV CM; ±2 kV; 3 V (10 kHz 10 V (150 kl 30 V (0 kHz 300 V (0 kHz		
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	electrical fast transient disruptive surge  conducted disturbance conducted CM disturbance input voltage range: 12 connector type: sci conductor size: 1.8 power consumption: 5 viredundancy: two input protection: regrounding: into the conductor into the conduct	t IEC 61000-4-4:  IEC 61000-4-5:  es, RF IEC 61000-4-6:  ances, RF IEC 61000-4-16:  V <sub>DC</sub> -52 V <sub>DC</sub> ;  rew terminal (Phoenix Contacts)  W max (non-PoE mode);  vo-source;  verse voltage protection;  regral M3 grounding terminal	data ports: power socke data ports: continuous: peak, 1 s:	et: ±4 kV; ±2 kV; et: ±2 kV DM; ±4 kV CM; ±2 kV; 3 V (10 kHz 10 V (150 kHz 300 V (0 kHz 300 V (0 kHz 300 V (0 kHz		
	electrical fast transient disruptive surge  conducted disturbance conducted CM disturbance conducted CM disturbance conductor Size: 1.8 power consumption: 5 V redundancy: two input protection: regrounding: intechnologies supported PoE ports:	IEC 61000-4-4:  IEC 61000-4-5:  Les, RF IEC 61000-4-6:  Les, RF IEC 61000-4-16:  Les, RF IEC 610	data ports: power socke data ports:  continuous: peak, 1 s:	et: ±4 kV; ±2 kV; et: ±2 kV DM; ±4 kV CM; ±2 kV; 3 V (10 kHz 10 V (150 kHz 300 V (0 kHz 300 V (0 kHz 300 V (0 kHz		
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	electrical fast transient disruptive surge  conducted disturbance conducted CM disturbance conducted CM disturbance conductor CM disturbance conductor type: seconductor size: 1.8 power consumption: 5 vedundancy: twinput protection: regrounding: intechnologies supported. PoE ports: output voltage: PoE Type detection:	t IEC 61000-4-4:  IEC 61000-4-5:  LEC 61000-4-6:  LEC 61000-4-6:  LEC 61000-4-16:  LEC 6100	data ports: power socke data ports:  continuous: peak, 1 s:	et: ±4 kV; ±2 kV; et: ±2 kV DM; ±4 kV CM; ±2 kV; 3 V (10 kHz 10 V (150 kHz 300 V (0 kHz 300 V (0 kHz 300 V (0 kHz		
Electrical:	electrical fast transient disruptive surge  conducted disturbance conducted CM disturbance conducted CM disturbance input voltage range: 12 connector type: scronductor size: 1.8 power consumption: 5 viredundancy: two input protection: regrounding: intechnologies supported:  PoE ports: output voltage:	t IEC 61000-4-4:  IEC 61000-4-5:  es, RF IEC 61000-4-6:  ances, RF IEC 61000-4-16:  V <sub>DC</sub> -52 V <sub>DC</sub> ;  rew terminal (Phoenix Contact)  3-mm (13-AWG) max;  W max (non-PoE mode);  ro-source;  verse voltage protection;  regral M3 grounding terminal:  IEEEB02.3af (Type 1);  IEEEB02.3at (Type 2);  1-8;  48 V <sub>DC</sub> -57 V <sub>DC</sub> ;	data ports: power socke data ports:  continuous: peak, 1 s:	et: ±4 kV; ±2 kV; et: ±2 kV DM; ±4 kV CM; ±2 kV; 3 V (10 kHz 10 V (150 kHz 300 V (0 kHz 300 V (0 kHz 300 V (0 kHz		
Electrical:	electrical fast transient disruptive surge  conducted disturbance conducted CM disturbance conducted CM disturbance conductor CM disturbance conductor type: seconductor size: 1.8 power consumption: 5 vedundancy: twinput protection: regrounding: intechnologies supported. PoE ports: output voltage: PoE Type detection:	IEC 61000-4-4:  IEC 61000-4-5:  Les, RF IEC 61000-4-6:  Les, RF IEC 61000-4-16:  Les, Les, Les, Les, Les, Les, Les, Les,	data ports: power socke data ports:  continuous: peak, 1 s: ett);	et: ±4 kV; ±2 kV; et: ±2 kV DM; ±4 kV CM; ±2 kV; 3 V (10 kHz 10 V (150 kl 30 V (0 kHz 300 V		
Electrical:	electrical fast transient disruptive surge  conducted disturbance conducted CM disturbance conducted CM disturbance conductor Size: 1.8 power consumption: 5 two sizes and sizes	t IEC 61000-4-4:  IEC 61000-4-5:  Les, RF IEC 61000-4-6:  Les, RF IEC 61000-4-16:  Les, Les, Les, Les, Les, Les, Les, Les,	data ports: power socke data ports:  continuous: peak, 1 s: ett);	et: ±4 kV; ±2 kV; et: ±2 kV DM; ±4 kV CM; ±2 kV; 3 V (10 kHz 10 V (150 kl 30 V (0 kHz 300 V (0 kHz		
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Electrical:	electrical fast transient disruptive surge  conducted disturbance conducted CM disturbance conducted CM disturbance conducted CM disturbance conductor size: 1.8 power consumption: 5 V redundancy: two input protection: regrounding: intechnologies supported PoE ports: output voltage: PoE Type detection: output power: powering scheme: source type: dimensions: width:	IEC 61000-4-4:  IEC 61000-4-5:  Les, RF IEC 61000-4-6:  Les, RF IEC 61000-4-16:  Les, Les, Les, Les, Les, Les, Les, Les,	data ports: power socke data ports:  continuous: peak, 1 s: ett);	et: ±4 kV; ±2 kV; et: ±2 kV DM; ±4 kV CM; ±2 kV; 3 V (10 kHz 10 V (150 kl) 30 V (0 kHz 300 V (0 kHz 300 V (0 kHz 300 V (0 kHz)		
Electrical:	electrical fast transient disruptive surge  conducted disturbance conducted CM disturbance conducted CM disturbance conducted CM disturbance conductor size: 1.8 power consumption: 5 V redundancy: two input protection: regrounding: intechnologies supported PoE ports: output voltage: PoE Type detection: output power:  powering scheme: source type: dimensions: width: depth:	t IEC 61000-4-4:  IEC 61000-4-5:  Les, RF IEC 61000-4-6:  Les, RF IEC 61000-4-16:  Les, Les, Les, Les, Les, Les, Les, Les,	data ports: power socke data ports:  continuous: peak, 1 s: ett);	et: ±4 kV; ±2 kV; et: ±2 kV DM; ±4 kV CM; ±2 kV; 3 V (10 kHz 10 V (150 kl) 30 V (0 kHz 300 V (0 kHz 300 V (0 kHz 300 V (0 kHz)		
Electrical:  Electrical, PoE:	electrical fast transient disruptive surge  conducted disturbance conducted CM disturbance conducted CM disturbance input voltage range: 12 connector type: so: conductor size: 1.8 power consumption: 5 % redundancy: two input protection: regrounding: infect technologies supported.  PoE ports: output voltage: PoE Type detection: output power: powering scheme: source type: dimensions: width: depth: height: weight: net:	t IEC 61000-4-4:  IEC 61000-4-5:  es, RF IEC 61000-4-6:  ances, RF IEC 61000-4-16:  V <sub>DC</sub> -52 V <sub>DC</sub> ;  rew terminal (Phoenix Contace)  w max (non-PoE mode);  vo-source;  verse voltage protection;  regral M3 grounding termine;  IEEE802.3af (Type 1);  IEEE802.3af (Type 2);  1-8;  48 V <sub>DC</sub> -57 V <sub>DC</sub> ;  auto;  IEEE 802.3af: 15.4 W max;  IEEE 802.3af: 15.4 W max;  IEEE 802.3af: 30.0 W max  +V: p1 p2  -V: p3 p6  end-span.  103 mm (4.1 in);  148 mm (5.8 in).  0.65 kg (1.43 lb);	data ports: power socke data ports:  continuous: peak, 1 s: ett);	et: ±4 kV; ±2 kV; et: ±2 kV DM; ±4 kV CM; ±2 kV; 3 V (10 kHz 10 V (150 kl) 30 V (0 kHz 300 V (0 kHz 300 V (0 kHz 300 V (0 kHz)		
Electrical:  Electrical, PoE:	electrical fast transient disruptive surge  conducted disturbance conducted CM disturbance conducted CM disturbance input voltage range: 12 connector type: sci conductor size: 1.8 power consumption: 5 % redundancy: two input protection: regrounding: intechnologies supported:  PoE ports: output voltage: PoE Type detection: output power:  powering scheme:  source type: dimensions: width: depth: height: net: packed:	t IEC 61000-4-4:  IEC 61000-4-5:  es, RF IEC 61000-4-6:  ances, RF IEC 61000-4-16:  V <sub>DC</sub> -52 V <sub>DC</sub> ;  rew terminal (Phoenix Contace)  sham (13-AWG) max;  W max (non-PoE mode);  ro-source;  verse voltage protection;  regral M3 grounding terminite (IEEE802.3af (Type 1);  IEEE802.3af (Type 1);  IEEE802.3af (Type 2);  1-8;  48 V <sub>DC</sub> -57 V <sub>DC</sub> ;  auto;  IEEE 802.3af: 15.4 W max;  IEEE 802.3af: 30.0 W max  +V: p1 p2  -V: p3 p6  end-span.  53.5 mm (2.1 in) [3 DU];  103 mm (4.1 in);  148 mm (5.8 in).	data ports: power socke data ports:  continuous: peak, 1 s: ett);	et: ±4 kV; ±2 kV; et: ±2 kV DM; ±4 kV CM; ±2 kV; 3 V (10 kHz 10 V (150 kl) 30 V (0 kHz 300 V (0 kHz 300 V (0 kHz 300 V (0 kHz)		
Electrical:  Electrical, PoE:	electrical fast transient disruptive surge  conducted disturbance conducted CM disturbance input voltage range: 12 connector type: sci conductor size: 1.8 power consumption: 5 vredundancy: two input protection: regrounding: intechnologies supported:  PoE ports: output voltage: PoE Type detection: output power:  powering scheme: source type: dimensions: width: height: weight: net: packed: FCC CFR47 Part 15;	t IEC 61000-4-4:  IEC 61000-4-5:  Les, RF IEC 61000-4-6:  Les, RF IEC 61000-4-16:  Les, Les, Les, Les, Les, Les, Les, Les,	data ports: power socke data ports:  continuous: peak, 1 s: ett);	#: ±4 kV; ±2 kV; #: ±2 kV DM; ±4 kV CM; ±2 kV; 3 V (10 kHz 10 V (150 kl) 300 V (0 kHz 300 V (0 kHz) 300 V (0 kHz) 4 kV CM; ±2 kV; 4 kV CM; ±2 kV; 53.6 mm [2.11 in]		
Electrical:  Electrical, PoE:  Physical:	electrical fast transient disruptive surge  conducted disturbance conducted CM disturbance conducted CM disturbance input voltage range: 12 connector type: sci conductor size: 1.8 power consumption: 5 % redundancy: two input protection: regrounding: intechnologies supported:  PoE ports: output voltage: PoE Type detection: output power:  powering scheme:  source type: dimensions: width: depth: height: net: packed:	t IEC 61000-4-4:  IEC 61000-4-5:  Les, RF IEC 61000-4-6:  Les, RF IEC 61000-4-16:  Les, Les, Les, Les, Les, Les, Les, Les,	data ports: power socke data ports:  continuous: peak, 1 s: et);	et: ±4 kV; ±2 kV; et: ±2 kV DM; ±4 kV CM; ±2 kV; 3 V (10 kHz 10 V (150 kl) 30 V (0 kHz 300 V (0 kHz 300 V (0 kHz 300 V (0 kHz)		



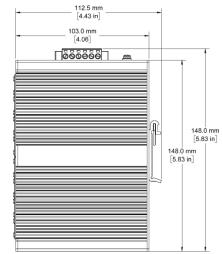




10 V/m (80 Hz-1000 MHz);

3 V (10 kHz-150 kHz); 10 V (150 kHz-80 MHz); 30 V (0 kHz-150 kHz);

300 V (0 kHz-150 kHz).



## NETWORK EQUIPMENT

# **Ethernet Switches**

# **DIN-Rail Mount Switches**

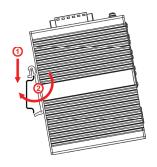


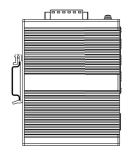
258-NAS2B-38001 **USER MANUAL** 

#### Installation precautions

- In order to avoid damage to equipment and personal injury caused by improper use, please follow the following precautions:
- In order 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.
- In order 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

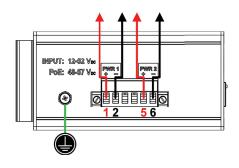




## Verify that the intended for mounting DIN rail is the 35-mm standard.

- Hook the DIN-rail clip on the top edge of the DIN rail 0.
- Pulling the unit down slightly turn it as shown in the diagram until it snaps on the DIN rail ②.
- Correct operating position of the unit and its clip relative to the DIN rail is shown on the right.
- In order 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

#### 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**

California 951.696.7772

- Suitable equipment cables with minimum transmission performance characteristics for network connection should be four-pair category  ${\bf 3}$ twisted-pair for 10BASE-T and four-pair category 5 twisted-pair for 100BASE-T and 1000BASE-T, screened or unscreened, straight or
- 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 <sub>X</sub> +	DC+	T <sub>X</sub> R <sub>X</sub> A+	DC+
2	R <sub>X</sub> -	DC+	T <sub>X</sub> R <sub>X</sub> A-	DC+
3	T <sub>X</sub> +	DC-	T <sub>X</sub> R <sub>X</sub> B+	DC-
4			T <sub>X</sub> R <sub>X</sub> C+	
5			T <sub>X</sub> R <sub>X</sub> C-	
6	T <sub>X</sub> -	DC-	T <sub>X</sub> R <sub>X</sub> B-	DC-
7			T <sub>X</sub> R <sub>X</sub> D+	
8			T <sub>X</sub> R <sub>X</sub> D-	

#### System state indication

