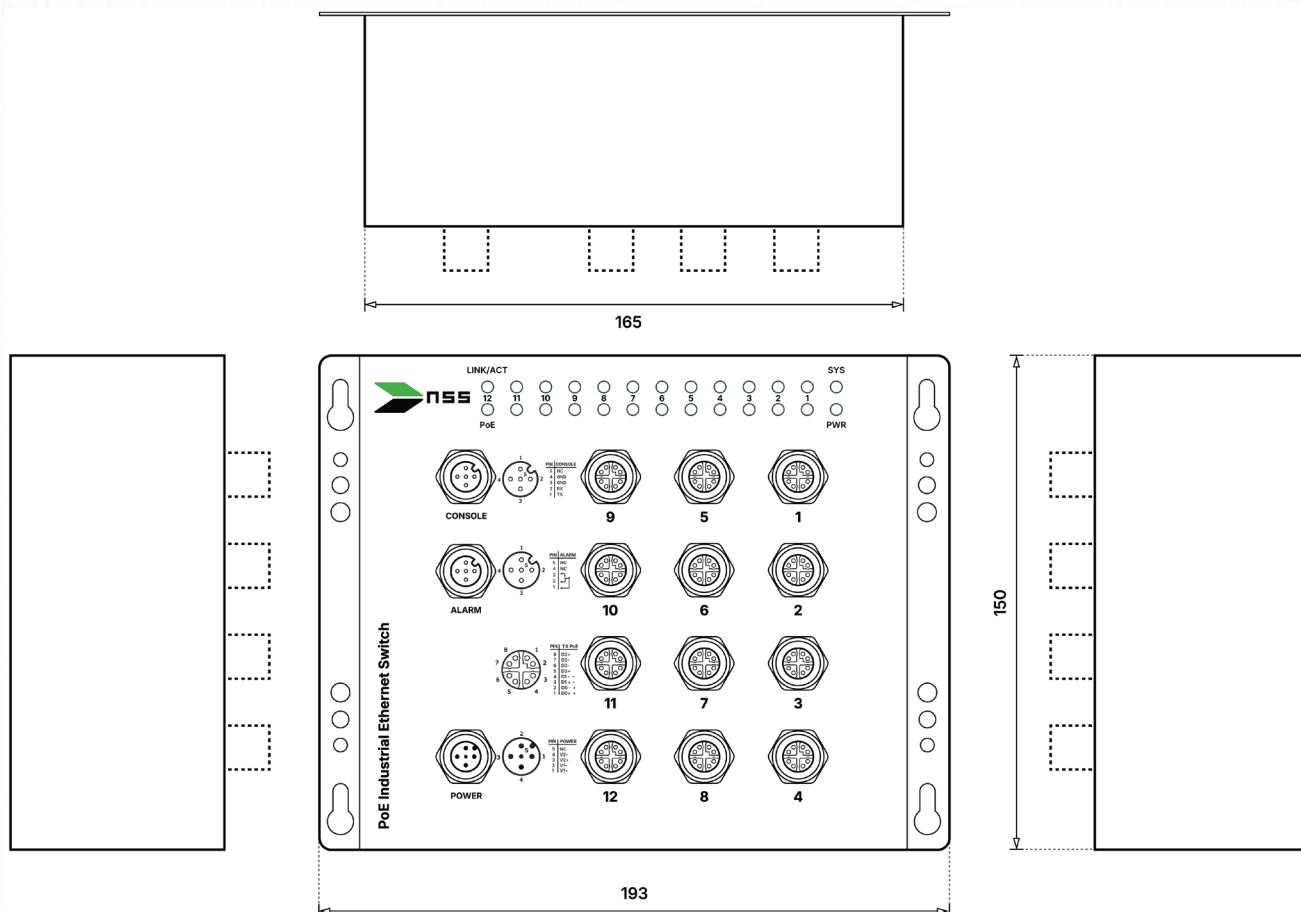




Quadro de Características Table of Characteristics

Identification	Type	Managed Gigabit Ethernet Switch with PoE
	Application	Railway, vehicle and Passenger Information Systems
Structure	Housing	High-strength metal
	IP Rating	IP40
	Dimensions	193 × 150 × 80 mm
	Mounting	Wall mounting
	Weight	1.6 kg
Power and Consumption	Power Input Voltage	24 VDC (9–36 VDC) redundant dual inputs
	Protections	Overcurrent and reverse polarity protection
	No-load power consumption	0.2 A @ 24 VDC (5 W)
	Full-load power consumption	4 A @ 24 VDC (100W) (support up to 24 ports at 30W)
	PoE Port Output	350 mA @ 48 VDC - 15.4W (IEEE 802.3af) 600 mA @ 48 VDC - 30 W (IEEE 802.3at)
	Power Budget	100W for total PDs' consumption
Interfaces	Ethernet Port	12 × X-code 8-pin female M12 connectors
		10/100/1000 BaseT(X) auto negotiation speed
		Full/Half duplex mode
		MDI/MDI-X connection
	Console Port	RS-232 (M12 A-code 5-pin female to DB9)
	Power Port	M12 A-code 4-pin male
	Alarm Port	M12 A-code 5-pin female
	LED Indicators	Power (green), System (amber), Ethernet Link/Act (green/amber), PoE (amber)

Network	Management	Web, CLI, Telnet, SNMPv1/v2c/v3
	Network redundancy	RSTP/STP/MTSP Protocols
	Network Functions	VLAN (IEEE 802.1Q), QoS, IGMP Snooping, Agregação de Portas (LACP), IEEE 802.1X
	Processing type	Store & Forward
	Backplane Capacity	56 G
	Forwarding Rate	17.856 Mpps
	MAC Table Size	8 K entries
	IGMP Groups	256
	Priority Queues	4
	Max VLANs	64 (VID-1-4094)
	Packet buffer	4.1 Mbit
	Jumbo Frame Size	10 KB
	Flow Control	IEEE 802.3x, Back Pressure
Environment	Operating Temperature	-40 °C a +75 °C
	Storage Temperature	-40 °C a +85 °C
	Relative Humidity	5 – 95% (non-condensing)
	Operating Conditions	Industrial-grade design for vibration, shock and EMI environments
Standards and Certifications	EMI	FCC Part 15B Class A CISPR (EN 55022) EN 55024 Class A
	EMS	EN 61000-4-2 (ESD), Level 4 EN 61000-4-3 (RS), Level 3 EN 61000-4-4 (EFT), Level 4 EN 61000-4-5 (Surge), Level 4 EN 61000-4-6 (CS), Level 3 EN 61000-4-8 (PFMF), Level 5
	Shock	IEC 60068-2-27
	Freefall	IEC 60068-2-32
	Vibration	IEC 60068-2-6
	Fire	EN45545
	Railway	EN50155, EN50121-3-2, EN50121-4
Durability	Mean time between failures	512 352 h



CONSOLE	
PIN	
5	NC
4	GND
3	GND
2	RX
1	TX

ALARM	
PIN	
5	NC
4	NC
3	
2	
1	

POWER	
PIN	
5	NC
4	V2-
3	V2+
2	V1-
1	V1+

TX PoE	
PIN	
8	D2+
7	D2-
6	D3-
5	D3+
4	D1- -
3	D1+ -
2	D0- +
1	D0+ +