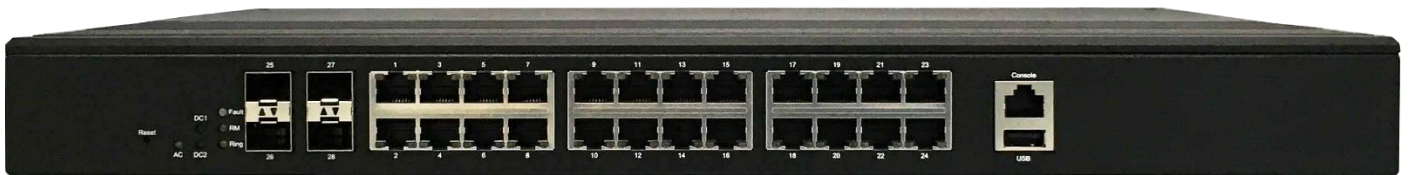


# NTIOT-CM-ES-M-2404-P



## Features

- 24x Gigabit Ethernet ports with IEEE 802.3at PoE+
- 4x 1/10 Gigabit Ethernet SFP+ Slot
- Built for harsh environments and wide temperature range application
- RSTP, MSTP, ERPS, LACP for Network Redundancy
- QoS CoS/DSCP to increase determinism
- Supports IGMP Snooping v1/v2/v3, up to 512 groups
- DHCP Relay Option 82 for policies IP address assignment
- SNMP v1/v2c/v3 for network management
- Supports Storm Protection
- USB storage for configuration-free replacement
- Supports industrial automation protocols Ethernet/IP and Modbus TCP
- Supports PoE PD Alive Check Function for PoE Device Power Recycle

## Specifications

Technology	Description
Standards	IEEE 802.3 10BaseT IEEE 802.3u 100BaseTX IEEE 802.3ab 1000BaseT IEEE 802.3ae 10GBase over Fiber IEEE 802.3x Flow Control IEEE 802.3af Power over Ethernet IEEE 802.3at PoE+ IEEE 802.3ad/802.1AX LACP IEEE 802.1D Spanning Tree Protocol IEEE 802.1w Rapid STP IEEE 802.1s Multiple STP ITU-T G.8032 / Y.1344 ERPS IEEE 802.1Q VLAN Tagging IEEE 802.1ad Stacked VLANs IEEE 802.1p Class of Service IEEE 802.1X Network Authentication IEEE 802.1AB LLDP IEEE 1588 PTP
Processing Type	Store and Forward

Switch Properties	Description	Switch Properties	Description
Switch Fabric	128Gbps	Packet Buffer	12Mbits
Priority Queues	8 Queues	VLAN Table Size	4094
Jumbo Frame	9216bytes	IGMP Group	512
MAC Table Size	16K	ACL Group	512

Software Feature	Description
Network Redundancy	RSTP, MSTP, G.8032 ERPSv2, Port Trunking with LACP
Security	802.1X, RADIUS, TACACS+, SSL, SSH
Management	IPv4, IPv6, Web, Telnet, Serial Console, CLI, SNMP v1/v2c/v3, uPnP
Diagnostics	RMON, SNMP Inform/Trap, Syslog, SMTP, Port Mirroring, LLDP
Configuration	DHCP Server/Client, Relay Option 82, TFTP, USB
Filter	802.1Q VLAN, Q-in-Q, IGMP Snooping v1/v2/v3, IGMP Querier, Independent Vlan Learning
Time Sync.	NTP, IEEE1588v2 OC (Software Timestamp), TC (Hardware Timestamp)
QoS	CoS, DSCP, WRR/SPQ Queuing, Storm Protection
PoE	Powering Status, PoE Monitoring, Scheduling, PD Alive Check
Industrial Profiles	Ethernet/IP, Modbus TCP

Interface	Description
RJ45 Port	24x 10/100/1000T(x) with 30W PSE + 4x 1/10 Gigabit Ethernet SFP+ Slot
Fiber Port	4x 1/10 Gigabit Ethernet SFP+ Slot
PoE Pin Out	V+, V+, V-, V-, for pin 1, 2, 3, 6, Endspan, MDI Mode A

LED Indicators	Per unit	PWR1, PWR2(AC2/DC2), Fault, Ring Master, Ring State
	Ports	Link/Active with highest speed (Green), low speed (Amber)
	PoE	Output Power
Alarm Contact	1x relay output with current carrying capacity of 1A @ 24 VDC	
Digital Inputs	1x isolated input from the electronics. +13 to +30V for state "1", -30 to +3V for state "0", Max. input current: 8mA	
Button	Multiple functions reset button	
Serial Console	1x RS232 in RJ45 connector with console cable, 115.2Kbps, 8N1	
Storage	1x USB 2.0 storage for firmware update, configuration backup, restore, boot up and syslog	

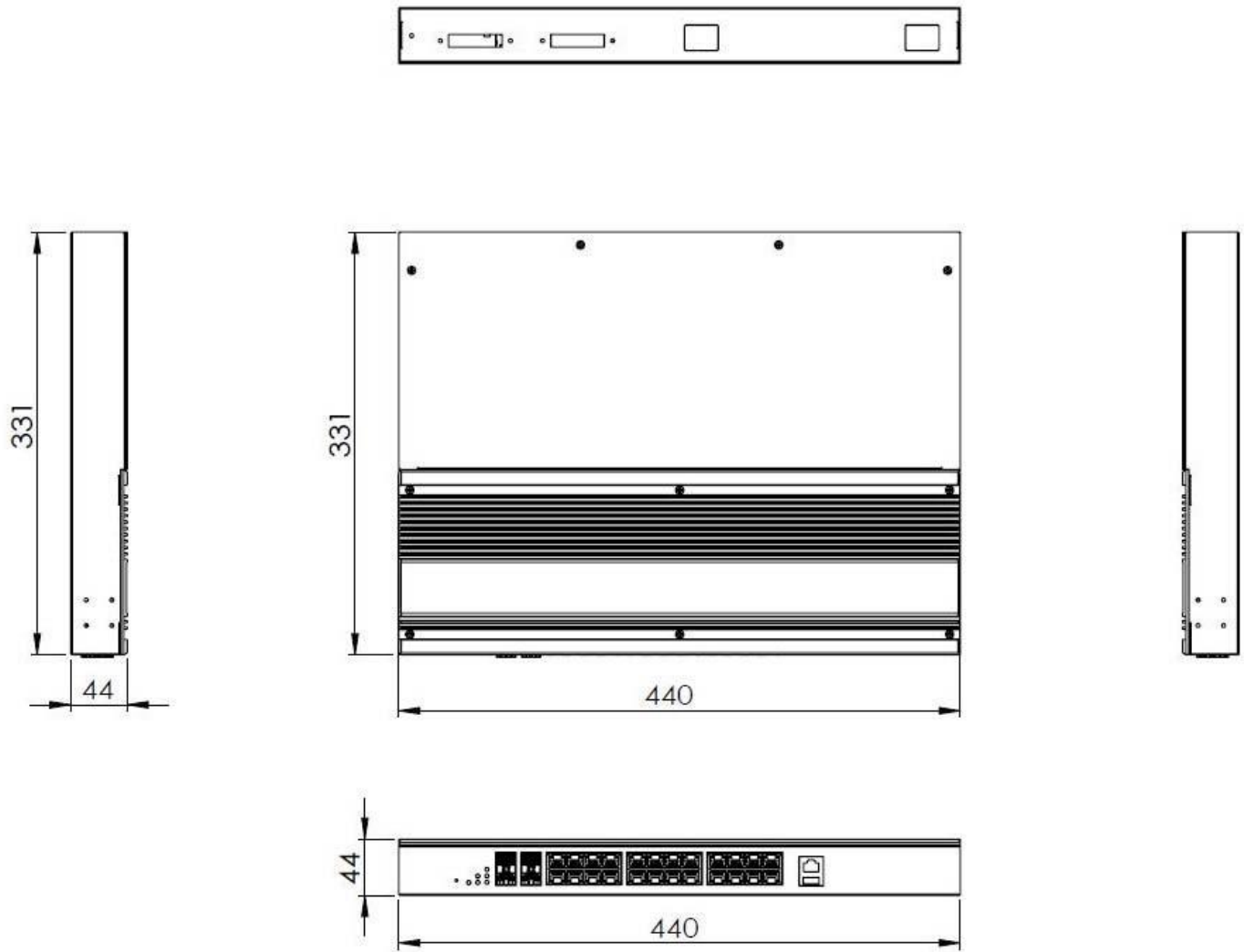
Power Requirements	Description
Operation Voltage	90~264VAC, 48~57VDC, redundant dual inputs, >50VDC for PoE+ output recommended
Connection	1x 90~264VAC Power and 1x 48~57VDC Power Input
Power Consumption	0.45A@48VDC; 0.33A@110VAC without PDs' consumption
PoE Power Budget	Max. 377W@AC with derating (50°C to 70°C, 2.5%/°C) or 720W@DC, for total PD consumption, Max. 30 W per PoE port
Protection	Overload Current Protected, Reverse Polarity Protected

Mechanical Construction	Description	Mechanical Construction	Description
Enclosure	Aluminum / Steel met	Weight	6.00 kg
Protection Class	IP30	Mounting	Rack Mounting
Dimensions	440Wx44Hx420D mm		

Environmental Limits	Description
Operating Temperature	Standard: -20°C ~ 60°C (-4°F ~ 140°F)
Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)
Ambient Relative Humidity	5 to 95%, (Non-Condensing)

Regulatory Approvals	Description	
EMI	FCC Part 15 Subpart B Class A CE EN 55032 Class A	
EMS	IEC61000-4-2 (ESD)	IEC61000-4-5 (Surge)
	IEC61000-4-3 (RS)	IEC61000-4-6 (CS)
	IEC61000-4-4 (EFT)	IEC61000-4-8 (Magnetic Field)
Free Fall	IEC60068-2-32	
Shock	IEC61373	
Vibration	IEC61373	
Green	RoHS Compliant	
MTBF	>100,000 hours	
Warranty	5 Years	

## Dimensions



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