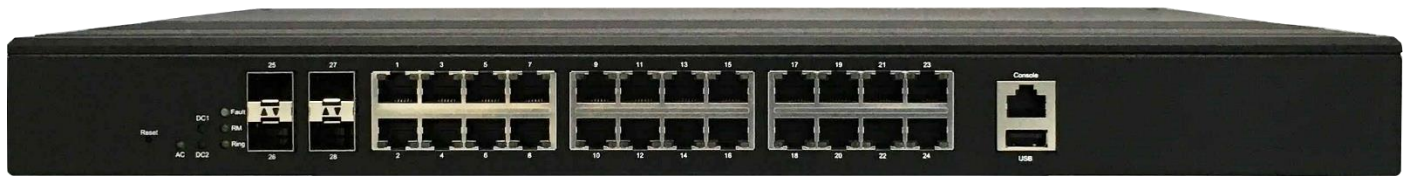


NTIOT-CM-ES-M-2404-P



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 | |

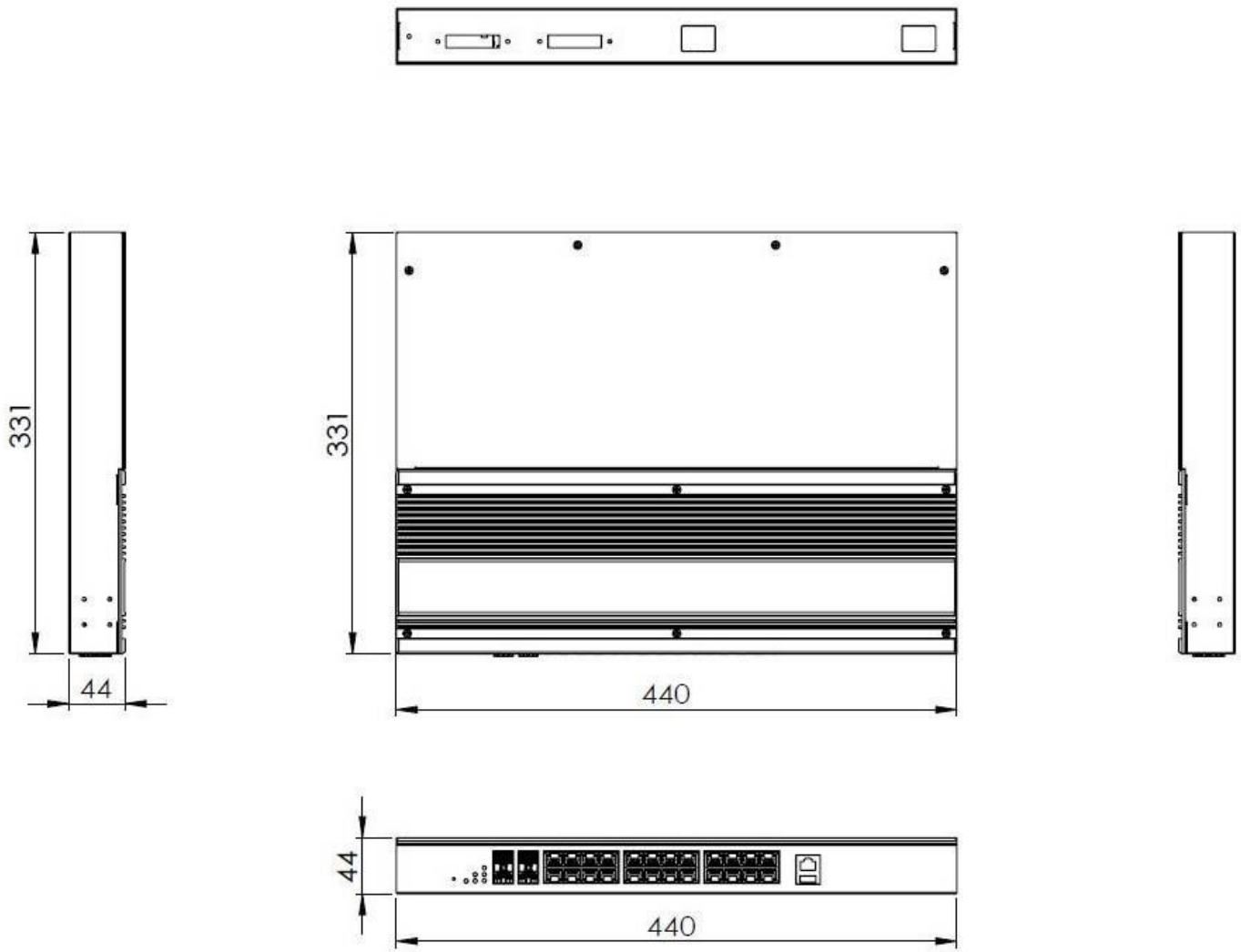
| Power Requirements | Description |
|--------------------|---|
| Operation Voltage | 90~264VAC, 48~57VDC, redundant dual inputs, >50VDC for PoE+ output recommended |
| Connection | 1x 90~264VAC Power and 1x 48~57VDC Power Input |
| Power Consumption | 0.45A@48VDC; 0.33A@110VAC without PDs' consumption |
| 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) IEC61000-4-3 (RS) IEC61000-4-4 (EFT) | IEC61000-4-5 (Surge) IEC61000-4-6 (CS) 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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