



The ComNet CTS24+2 is a managed layer-2 commercial grade Ethernet transport system and provides up to 24 ports of 10/100TX Ethernet and two ports of 10/100/1000TX or 1000FX transmission. The CTS24+2 series allows for ultimate flexibility in combining standard copper, optical, and extended distance Ethernet all in one rack mounted chassis configuration. Optional PoE allows the user to customize a solution to fit a specific application in a 1 RU rack space.

The system includes a chassis with optional PoE supplies of 400 or 720 watts. Up to three 8 channel modules can be ordered to populate the system. These modules are offered in conventional CAT5/6 10/100 Mbps Ethernet, 100FX optical SFP, or CopperLine® Coax or UTP interfaces. The selected combination of chassis and modules are assembled at the factory to ensure your configuration is tested as a complete unit.

FEATURES

Chassis:

- › Commercial Grade for 0°C-50°C operation
- › Fully configurable via web based GUI or USB CLI
- › PoE models with 400 W or 720 W
- › 2 gigabit combo uplinks
- › 3 slots capable of 8 ports each for a total of up to 24 configurable PoE-capable ports
- › 19" 1 RU form factor

Modules:

- › 8 channel 10/100 TX ports
- › 8 channel Coax CopperLine ports
- › 8 channel UTP CopperLine ports
- › 8 channel 100 Mbps FX SFP ports

Software:

- › Web / USB CLI configurable
- › VLAN support
- › STP/RSTP
- › PoE management
- › CopperLine rate management (10/100 Mbps)
- › IGMP multicast support

APPLICATIONS

- › Video surveillance / security
- › Mix and match head end unit for copper / fiber / extended distance applications
- › Aggregate Analog to IP retrofit switch over existing coax/UTP

* Small Form-Factor Pluggable Module. Sold separately.

SPECIFICATIONS

Software

| | |
|-----------------|--|
| Configuration | Web/USB CLI |
| VLAN | IEEE 802.1Q (32 Max), Port based VLAN (26 Max) |
| Redundancy | IEEE802.1d STP, IEEE802.1w RSTP |
| Security | MAC address binding port security, DHCP Relay, TCP/UDP filters |
| Traffic Control | IGMP Snooping V1/V2 for multicast group management, Bandwidth Control, Broadcast Storm Control, Port trunk, QoS priority queuing / CoS, port trunk, IEEE 802.3x flow control |
| Diagnostics | Port Mirroring, Real-time traffic statistic, MAC Address Table |
| Management | SNMP v1/v2c |
| PoE Management | PoE Enable/Disable, Power limit by classification, Power limit by management, Power feeding priority, Power On Delay Timer, Power Scheduling |

PoE pin assignment

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|---|
| RJ45 modules support IEEE802.3at End-point, Alternative A mode. |
| Positive (VCC+): RJ45 pin 1, 2 |
| Negative (VCC-): RJ45 pin 3, 6 |

Mechanical

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|------------------------|---|
| LED Indicators | Link/Activity per Channel PoE function per PoE Channel |
| Dimensions (D × W × H) | 14.37 × 17.07 × 1.75 in (36.49 × 43.35 × 4.45 cm) |
| Cooling | Natural Convection (CTS24+2[POE] models) Fan Assisted (CTS24+2POE1 models) |

Environment

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|-----------------------|--|
| MTBF | >100,000 hours |
| Operating Temperature | 0° to +50°C |
| Storage Temperature | -40° to +70°C |
| Relative Humidity | 0 to 95% (non-condensing) ² |

Ethernet Standards

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|---|
| IEEE 802.3 10Base-T Ethernet |
| IEEE 802.3u 100Base-TX/100Base-FX |
| IEEE 802.3z Gigabit fiber |
| IEEE 802.3ab 1000Base-T |
| IEEE 802.3x Flow Control and Back Pressure |
| IEEE 802.3ad Port trunk |
| IEEE 802.1d Spanning Tree |
| IEEE 802.1q VLAN Tag |
| IEEE 802.1w for RSTP (Rapid Spanning Tree Protocol) |
| IEEE 802.3at Power over Ethernet |

Switch Properties

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|---------------------|----------------------|
| Switch Architecture | Back-plane: 8.8 Gbps |
| Packet Buffer | 2.75 Mb |
| MAC Address | 4K |

Connectors

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|-----------------|-------------------------------------|
| CTS8FETX | 8 × RJ-45 |
| CTS8FESFP | 8 × SFP ¹ |
| CTS8EOC | 8 × BNC |
| CTS8EOU | 8 × RJ-45 |
| CTS24+2 Chassis | 2 × RJ-45/SFP Combo, 1 × USB Type B |

Power

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|------------------------|--|
| Power consumption | 20 W max (plus PoE budget) |
| Operating Power | 110/240 VAC with internal power supply unit. |
| Max Power Per PoE Port | 30 W max |
| Total PoE Power Budget | 400 W (CTS24+2POE) or 720 W (CTS24+2POE1) |

Regulatory Compliance

| | |
|-----|---|
| EMC | CE, FCC Class A, EN55022, EN60950-1 (Pending) |
|-----|---|

ORDERING INFORMATION

Units are factory configured. Select a Chassis based upon your Power Budget, and up to three Modules. Any empty slots will be covered with a blank panel.



| | Part Number | Description | Max. Distance |
|---------------|---|---|-----------------|
| Chassis | CTS24+2 | CTS Commercial Grade Modular Ethernet Managed Switch Chassis with Power Supply | 328 ft (100 m) |
| | CTS24+2POE | CTS Commercial Grade Modular Ethernet Managed Switch Chassis with 400 W Power Supply | 328 ft (100 m) |
| | CTS24+2POE1 | CTS Commercial Grade Modular Ethernet Managed Switch Chassis with 720 W Power Supply | 328 ft (100 m) |
| Modules | CTS8FETX | 8 Channel 10/100 TX Module with RJ-45 Interface | 328 ft (100 m) |
| | CTS8FESFP ³ | 8 Channel 100 FX Module with SFP Interface | SFP dependent |
| | CTS8EOC | 8 Channel CopperLine® Module with BNC Coaxial Cable Interface | 1000 ft (300 m) |
| | CTS8EOU | 8 Channel CopperLine® Module with RJ-45 UTP Cable Interface | 1000 ft (300 m) |
| Preconfigured | CTS24+2TXPOE | CTS Chassis with 24 10/100 TX RJ-45 Standard Ports and 400 W PoE Power Supply | 328 ft (100 m) |
| | CTS24+2SFP | CTS Chassis with 24 100 FX SFP Ports and Power Supply | SFP dependent |
| | CTS24+2EOCPOE | CTS Chassis with 24 CopperLine® Ports with BNC Coaxial Cable Interface and 400 W PoE Power Supply | 1000 ft (300 m) |
| | CTS24+2EOUPOE | CTS Chassis with 24 CopperLine® Ports with RJ-45 UTP Cable Interface and 400 W PoE Power Supply | 1000 ft (300 m) |
| Options | [2] Add suffix '/C' for Conformally Coated Circuit Boards to extend to condensation conditions (Extra charge, consult factory) | | |
| | [3] User selection of ComNet SFP (Extra charge, see SFP Modules data sheet for product numbers and compatibility before ordering) | | |

[1] Multimode fiber needs to meet or exceed fiber standard ITU-T G.651. Single mode fiber needs to meet or exceed fiber standard ITU-T G.652.
Complies with FDA Performance Standard for Laser Products, Title 21, Code of Federal Regulations, Subchapter J
In a continuing effort to improve and advance technology, product specifications are subject to change without notice.