CTS™ 24-Port Commercial Grade Modular Ethernet Managed Switch

CTS24+2[POE][HO]

The ComNet CTS24+2 is a fully managed layer-2 commercial grade Ethernet transport system and provides up to 24 ports of 10/100 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 1000 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 options of 400 W or 1000 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

› 5 year warranty

Modules:

› 8 channel 10/100 TX ports (optional PoE)

› 8 channel Coax CopperLine ports (optional PoE)

› 8 channel UTP CopperLine ports (optional PoE)

› 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.*

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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

Switch Properties

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

Connectors

CTS8FETX[POE]	8 × RJ-45
CTS8FESFP	8 × SFP[1]
CTS8COAX[POE]	8 × BNC
CTS8UTP[POE]	8 × RJ-45
CTS24+2 Chassis	2 × RJ-45/SFP Combo, 1 × USB Type B

Power

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+2POEHO)

PoE pin assignment

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

Mechanical

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+2POEHO models)

Environment

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

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

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.

AGENCY COMPLIANCE FC PART 15 COMPLIANT CE RoHS

MADE IN THE USA

	Part Number	Description
Chassis	CTS24+2	CTS Commercial Grade Modular Ethernet Managed Switch Chassis with Power Supply
	CTS24+2POE	CTS Commercial Grade Modular Ethernet Managed Switch Chassis with 400 W Power Supply
	CTS24+2POEHO	CTS Commercial Grade Modular Ethernet Managed Switch Chassis with 1000 W Power Supply
Modules	CTS8FETX	8 Channel 10/100 TX Module with RJ-45 Interface
	CTS8FETXPOE	8 Channel 10/100 TX Module with RJ-45 Interface and PoE
	CTS8FESFP[3]	8 Channel 100 FX Module with SFP Interface
	CTS8COAX	8 Channel CopperLine® Module with BNC Coaxial Cable Interface
	CTS8COAXPOE	8 Channel CopperLine® Module with BNC Coaxial Cable Interface and PoE
	CTS8UTP	8 Channel CopperLine® Module with RJ-45 UTP Cable Interface
	CTS8UTPPOE	8 Channel CopperLine® Module with RJ-45 UTP Cable Interface and PoE
	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.

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