3570 Series
Industrial Ethernet Switch

Description

Using Ethernet networking in the manufacturing environment can enhance information flow, improve maintainability, and simplify access for better monitoring and diagnostics. However, the unique challenges of operating in harsh environments demand network components which are designed especially for industrial installations.

The 3570 Series of 5-port Industrial Ethernet Switches from CTI is designed specifically for providing network access to small clusters of factory floor equipment. In addition to its ability to withstand harsh production requirements, the 3570 Series includes features like spacesaver DIN rail mounting and redundant power supply connection which make it even easier to integrate into a typical industrial installation.

Features

- Five Ethernet ports, available in four different configurations of copper and fiber media
- Isolated power supply
- 10/100 Mbps with auto-negotiation, auto-crossover and auto-sensing on all RJ-45 ports

Specifications

Ports: 5 (combinations of copper and fiber depending on model)

Power supply: isolated, fused, requires user-supplied 10-30 VDC , supports redundant supplies, removable connector

Ethernet standards: IEEE 802.3, 802.3u, 802.3x, all standard 802.3 protocols supported

Port Speed: 10 or 100 Mbps (half or full duplex)

Auto-crossover: all ports

Auto-sensing: full and half duplex

Auto-negotiation: 10 or 100 Mbps

Broadcast storm protection: all ports

LED indicators: power supply 1, power supply 2, link/active (each port), 10/100 (each port)

Ethernet isolation: 1200 Vrms

Mounting configuration: DIN rail

Connector (power): Removable

Module Size: 120D x 101H x 35W (mm)

Operating Temperature: $0°$ to $60°C$ ($32°$ to $140°F$)

Storage Temperature: $-40°$ to $85°C$ ($-40°$ to $185°F$)

Relative Humidity: 5% to 95% (non-condensing)
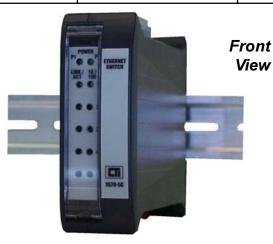
Agency Approvals Pending: UL, ULC, Class 1, Div. 2, CE

Shipping Weight: 1.0 lb. (0.45 Kg)

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Port Configurations by Model

Model	Copper (RJ45) ports	Fiber ports
3570-5C	5	0
3570-1F	4	1
3570-2F	3	2
3570-3F	2	3

Front View

Bottom View

Port Specifications

10/100BaseTx Ports (copper)

Port connector: shielded RJ45

Auto-crossover: all ports

Auto-sensing: full and half duplex

Auto-negotiation: 10BaseT and 100BaseTx

Flow control: automatic

Ethernet isolation: 1200 Vrms

Cable requirements: Cat 5 twisted pair

Cable distance: 100m (max)

100BaseFx Port (fiber)

Port mode: multimode

Port connector: MT-RJ

Optimal fiber cable: 62.5/125, 50/125

Center wavelength: 1300nm

Tx output power: -14dBm to -22dBm

Rx input sensitivity: -31dBm peak (min)

Cable distance: 2km (max)

Switch Specifications

Forwarding mode: store and forward

Memory bandwidth: 1.4 Gbps

MAC addresses: 1K

Address learning: automatic

Address aging: removed after 300 seconds

Address migration: automatic

Backoff operation: drops after 16 collisions

Back pressure: automatic for half-duplex

Broadcast storm protection: limits to 25%

Buffer memory: 128K

Buffers (total): 1024

Buffers per port: 205

Buffer size: 128 bytes

Illegal frames: dropped per IEEE 802.3

Late collisions: dropped after 512 bit times