

**LAN ELECTRONICS AND WIRELESS**

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**Chapter Summary**

- Wide range of high performance, cost-effective switches and media converters
- Unmanaged switches are ideal for small office, small workgroup or home office applications
- Smart switches are ideal for network managers who want to have a basic level of control of their network
- SNMP managed switches are full-featured Layer 2 switches perfect for the first point of network contact in enterprise applications
- Ethernet media converters products enable a wide range of reliable network solutions
- IEEE 802.3af compliant Mid-Span Power-Over-Ethernet (PoE) unit supports power and data over existing copper cabling

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## AMP NETCONNECT Ethernet LAN Switches

Tyco Electronics offers a wide range of high performance, cost-effective AMP NETCONNECT Ethernet Switches. The AMP NETCONNECT Switches include unmanaged Compact Ethernet Switches, Smart Ethernet Switches with built-in or optional fiber uplink ports and SNMP Managed Ethernet Switches with optional fiber or twisted pair Gigabit uplink ports.

AMP NETCONNECT basic, unmanaged Compact Ethernet Switches are ideal for Small Office/Home Office (SOHO), small workgroup or home networking applications. Smart Ethernet Switches have fiber uplink ports either built-in/fixed (8-Port switch only) or optional (16- and 24-Port switches) to enable high speed connections to backbones, servers, and network devices over single-mode or multimode (50 or 62.5/125 μm) fiber using industry standard MT-RJ, SC, and ST-Style connectors. SNMP Managed Ethernet Switches deliver management capabilities required by most network managers using interfaces such as direct connection to a console port, Telnet, or web browser sessions. Optional fiber or twisted pair uplinks can be added for high speed network interface. Fiber uplinks include single-mode and multimode (50 or 62.5/125 μm) Gigabit (1000BASE-SX or LX) and 100BASE-FX. Optional twisted pair uplink is via an RJ45, 100/1000BASE-T interface. These uplinks can be used in any combination on the switch to deliver a highly flexible backbone solution.

With an emphasis on high quality, competitive cost, and ease of use, AMP NETCONNECT Ethernet Switches are a great choice for anyone from a home office user to an enterprise IT manager.

### 5- and 8-Port Compact Ethernet Switch



Description		Figure	Part Number
Compact Ethernet Switch	5-Port	A	1591090-1
	8-Port	B	1591036-1

### Product Facts

- Compact and easy to install Ethernet switches
- Ideal for Small Office/Home Office (SOHO), small business and home networking applications
- Supports 10BASE-T and 100BASE-TX Ethernet applications
- For use with RJ45, shielded or unshielded, Category 6, 5e and 5 twisted pair structured cabling systems
- Data rate auto-negotiation and full or half duplex mode auto-selection
- Auto MDI/MDI-X detection eliminates the need for crossover cable assemblies
- Strong metal case helps to protect the switch against damage
- Powered via a compact external AC power adapter

## 16- and 24-Port Compact Ethernet Switch



A



B

Description		Figure	Part Number
Compact Ethernet Switch	16-Port	A	1591070-1
	24-Port	B	1591072-1

### Product Facts

- Compact and easy to install Ethernet switches
- 16-Port Compact Ethernet Switch is ideal for small office/business and home networking applications
- 24-Port Compact Ethernet Switch is ideal for medium sized office/business applications
- Supports 10BASE-T and 100BASE-TX Ethernet applications
- For use with RJ45, shielded or unshielded, Category 6, 5e, and 5 twisted pair structured cabling systems
- Data rate auto-negotiation and full or half duplex mode auto-selection
- Auto MDI/MDI-X detection eliminates the need for crossover cable assemblies
- Strong metal case helps to protect the switch against damage
- Powered via an internal, auto-ranging AC/DC power unit
- Can be mounted in either 10" or 19" frames
- Optional brackets for standard 19" rack mounting included

## AMP NETCONNECT Smart Ethernet Switches

AMP NETCONNECT Smart switches can be configured using the local console port to control functions such as VLAN assignments and port enable/disable modes. This capability is ideal for network managers who want a basic level of network control.

### Product Facts

- Supports 10BASE-T and 100BASE-TX Ethernet applications
- For use with RJ45, shielded or unshielded, Category 6, 5e and 5 twisted pair structured cabling systems
- Data rate auto-negotiation and full or half duplex mode auto-selection
- Auto MDI/MDI-X detection eliminates the need for crossover cable assemblies
- Strong metal case helps to protect the switch against damage
- Powered via an internal, auto-ranging AC/DC power unit
- Can be mounted in either 10" or 19" frames

## 8-Port Smart Ethernet Switches with Fiber Uplink Ports



### Product Facts

- In addition to features at top, this switch:
- Ideal for linking small workgroups to remote servers or routers via integral fiber uplink port
- Basic port controls and VLAN settings are manageable via console port located on rear of unit
- Optional brackets for standard 19" rack mounting available separately
- Optical fiber uplinks:
  - Fiber uplink ports support 100BASE-FX applications and feature speed auto-negotiation and auto MDI/MDI-X detection eliminating the need for cross over cables
  - Compatible with 50/125µm and 62.5/125µm fiber types
  - Available with Multimode SC, ST, and Single-mode SC fiber uplink ports

Description	Fiber Uplink	Part Number
8-Port Smart Ethernet Switch	SC Duplex, Multimode	1591038-1
	SC Duplex, Single-mode	1591044-1
	ST Multimode	1591040-1
19" Mounting Brackets (Set of two)		1591068-0

## 24-Port Smart Ethernet Switch II with Optional Dual Uplink Port



### Product Facts

- Supports 10BASE-T, 100BASE-TX, and Fast Ethernet standards
- Optional dual or single fiber uplink module only needs to be fitted if fiber link is required
- Fully managed Smart Switch II through the RS232 console port
- Supports up to 26 port-based VLANs
- Supports QoS (802.1p, DiffServ and port based)
- Programmable port speeds and duplex modes
- Supports full or half-duplex auto-negotiation together with N-Way capability on the RJ45 ports
- Auto-MDI/MDI-X support on each copper port
- Meets international safety and EMC approvals
- 2.5 Mb/s Memory buffer
- 8K MAC with Auto learning
- High speed 8.8Gb/s Back Plane

Description	Application	Interface Type	Part Number
24-Port Smart Ethernet Switch II			1591093-X
Optional Uplink Port Modules	100BASE-Fx	SC Multimode Fiber	1591094-0
		ST Multimode Fiber	1591095-0
		SC Single-mode Fiber	1591096-0
	Dual Gigabit	Multimode 1000BASE-Sx	1591097-0
		Single-mode 1000BASE-Lx	1591098-0
		Twisted Pair 1000BASE-T	2-1591019-0

X denotes country/region: 1 = USA and Canada, 2 = Europe ex. Italy, Denmark and Switzerland, 3 = Switzerland, 5 = Denmark, 6 = Australia and New Zealand, 7 = UK, Ireland and Singapore, 8 = India and South Africa

## AMP NETCONNECT SNMP Managed Ethernet Switches

AMP NETCONNECT SNMP Managed Ethernet Switches allow network managers excellent control and visibility of distributed switches using advanced functions accessible through a direct connection to the console port, Telnet or web browser sessions, or SNMP programs. This capability is ideal for network managers who want to have versatile control of their network.

### 24-Port Stackable Managed Switch with Optional Expansion Port



#### Product Facts

- Supports 10BASE-T, 100BASE-TX, and Ethernet applications
- Available uplink modules provide optional fiber 100BASE-FX or optical fiber or copper gigabit capabilities
- Supports full of half-duplex auto-negotiation together with N-Way capability on the RJ-45 port
- Auto-MDI/MDI-X eliminates the need for RJ-45 crossover cables
- Managed and controlled from a Console port, Telnet, SNMP or Web Browser
- IP stackable management supporting 8 separate switches
- VLANs, IGMP and QoS support
- Static MAC address port security
- Programmable bandwidth rules
- Comprehensive LED indicators
- Programmable port mirroring
- Up to 7 Port Trunks supported
- Supports 802-1x user authentication

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Description	Application	Interface Type	Part Number
24-Port Stackable Managed Switch			1591099-X
	100BASE-Fx	SC Multimode Fiber	1591094-0
		ST Multimode Fiber	1591095-0
Optional Uplink Port Modules		SC Single-mode Fiber	1591096-0
		4-Fiber Multimode 1000BASE-Sx	1591097-0
	Dual Gigabit	4-Fiber Single-mode 1000BASE-Lx	1591098-0
		2-Port Twisted Pair 1000BASE-T	2-1591019-0

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## AMP NETCONNECT Ethernet Media Converters

AMP NETCONNECT Ethernet Media Converters are high quality media conversion products that support 10BASE-T, 100BASE-TX and Gigabit (1000BASE-T) Ethernet standards and can be used in a wide range of applications including office buildings, professional workgroups, campuses, Fiber-to-the-Desk (FttD), and industrial systems.

Media Converters are used to extend Ethernet segments or LANs to servers and other network elements using single-mode or multimode (50 or 62.5/125 μm) optical fibers connectorized with the MT-RJ, SC, or ST connectors.

With a strong focus on simple, cost effective, quality installations, AMP NETCONNECT Media Converters enable a wide range of reliable network solutions.

### Fast Ethernet Media Converters



Description	Part Number	
Fast Ethernet Media Converter	MT-RJ Multimode	1591028-1
	SC Duplex Multimode	1591024-1
	SC Duplex Single-mode	1591030-1
	ST Multimode	1591026-1

### Product Facts

- Ideal for both new and legacy LAN applications
- RJ45 Port:
  - For use with shielded or unshielded, Category 6, 5e, and 5 twisted pair structured cabling systems
  - Supports 10BASE-T and 100BASE-TX Ethernet applications
  - Data rate auto-negotiation and full or half duplex mode auto-selection
  - Auto MDI/MDI-X detection eliminates the need for crossover cable assemblies
- Optical Fiber Port:
  - For use with MT-RJ, SC, or ST, Multimode or SC Single-mode optical fiber connectors
  - Multimode fiber ports are compatible with 50/125μm and 62.5/125μm fiber types
  - Supports 100BASE-FX Ethernet applications
- Increased network resilience through Link Loss forwarding function that allows suitable Ethernet switches to implement alternate paths when required
- Stand-alone or chassis mountable
- Strong metal case helps to protect the media converter against damage
- Powered via an external, AC power adapter
- Dimensions 4.7" x 3.4" x 1.0"

## Gigabit Ethernet Media Converters



Description	Part Number
1000BASE-SX SC Duplex Multimode	1591020-1
1000BASE-LX SC Duplex Single-mode	1591022-1

### Product Facts

- Ideal for both new and legacy LAN applications
- RJ45 Port:
  - For use with shielded or unshielded, Category 6, 5e and 5 twisted pair structured cabling systems
  - Supports 1000BASE-T Ethernet applications data rate auto-negotiation and full or half duplex mode auto-selection
  - Auto MDI/MDI-X detection eliminates the need for crossover cable assemblies
- Optical Fiber Port:
  - For use with SC Multimode or single-mode fiber optic connectors
  - Multimode fiber ports are compatible with 50/125 μm and 62.5/125 μm fiber types
  - Supports 1000BASE-SX and 1000BASE-LX Ethernet applications
- Stand-alone or chassis mountable
- Strong metal case helps to protect the media converter against damage
- Powered via an external, AC power adapter
- Dimensions 4.7" x 3.4" x 1.0"

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## Rack Mount Media Converter Chassis System



Loaded

Description	Part Number
Rack Mount Media Converter Chassis System	1591032-1
Spare/Redundant AC Power Unit	1591034-0

NOTE: Media converters purchased separately

### Product Facts

- Mounts in standard 19" racks
- 3U (5.25")
- Accepts up to ten (10) Fast Ethernet or Gigabit Ethernet Media Converters
- Ideal for enterprise critical and networks
- Can be loaded with mixed types of media converters for flexibility
- Media converters can be hot-swapped within the chassis
- Media converters are purchased separately
- Media Converter Chassis is shipped unloaded and includes one installed power supply
- A second power supply can be installed for a dual redundancy power system
- Power supplies can be hot-swapped for critical availability networks

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## AMP NETCONNECT Power over Ethernet Products

The AMP NETCONNECT 8-Port & 24 Port Power over Ethernet (PoE) Midspan device for 802.3af applications offers a per-port, cost-effective solution when powering remote devices like VoIP phones, WLAN access points, security devices, etc. The AMP NETCONNECT 8-Port and 24-Port PoE Midspan devices makes injecting DC power onto existing copper cabling as simple as routing patch cords and it eliminates the PoE costs for powered switch ports when power is not needed.

### 8-Port PoE Midspan Device



#### Product Facts

- IEEE 802.3af compliant
- Supports 10/100/1000 Mb/s Ethernet
- 19" metal frame mountable
- Universal 110/220 V (50/60 Hz) power supply
- Full Power on every port (15.4 W)

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Description	Part Number
8-Port PoE Midspan	1591184-X
1U, 19" Mounting Frame (holds three 8-Port PoE Midspan Devices)	1591185-0

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### 24-Port PoE Midspan Device



#### Product Facts

- IEEE 802.3af compliant
- Supports 10/100/1000 Mb/s Ethernet
- 185W Total Power
- Optional Power Upgrade
- Optional Phantom Power version available

Description	Part Number
24-Port PoE Midspan Device, unused pairs, w/o management	0-1591187-X
24-Port PoE Midspan Device, unused pairs, with management	1-1591187-X
24-Port PoE Midspan Device, phantom power, w/o management	2-1591187-X
24-Port PoE Midspan Device, phantom power, with management	3-1591187-X

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