



Ethernet Switches Tutorial

What is an Ethernet Switch?

An Ethernet switch is a multi-port network bridge used to connect multiple PCs, servers, laptops or other Ethernet IP enabled devices such as Networked Printers, NAS (Network Attached Storage), or IP cameras to a Local Area Network (LAN). Most switches feature 10/100 Megabit per second RJ45 ports although many newer switch designs now offer 10/100/1000 triple

speed ports that auto-negotiate up to 1 Gigabit per second access. The switch uses a MAC address table to keep track of where PCs, servers or other connected devices are located. Each device has a unique MAC (Media Access Control) address "burned" into the hardware. For example; if a PC on port one needs to "talk" to a file server, the switch will look at its MAC address table and determine which port the file server is located on and send the PCs data to only that port. This effectively relieves network congestion and is able to scale as your network grows.

How is an Ethernet Switch used?

Ethernet switches typically utilize RJ45 ports for UTP or STP connectivity to PCs, servers, routers etc. Many switches also feature high speed uplink ports where modules can be purchased to connect fiber optic or UTP cabling supporting speeds of 1 Gigabit per second or more. Cables are used to plug into the ports on the switch and then into the Ethernet device (PC, router etc.) on the other end.

Managed and Unmanaged

Unmanaged Ethernet switches, typically referred to as "plug and play", are easy to install but do not provide port level statics, management and control that is often required in larger networks where many switches are installed. Managed switches typically feature an SNMP agent that allows port level control and statistics such as collisions, packets in, packet out etc. Some managed switches also feature filters where only certain devices, PCs etc. are allowed to communicate on a certain port of the switch. By using managed switches a network administrator can see if a port may be malfunctioning and sending bad packets onto the network and shut that port off so the whole network does not go down.

Accessing Scheme:	CSMA/CD - Carrier sense multiple access with Collision Detection.
Speed:	10 Mbps/100 Mbps/1000 Mbps (1 Gbps).
Network Architecture:	Bus, Star, Ring, Hybrid

The diagram below shows a typical Ethernet Switch application



In the diagram above you can see that Ethernet switches are used for sharing resources such as printers, networked file servers and router connections to the Internet or Wide Area Network (WAN).

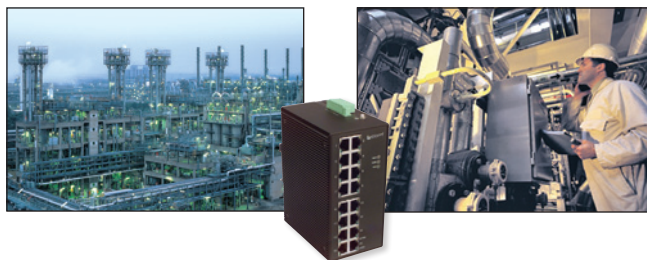
Commercial Ethernet Switches

Commercial grade Ethernet switches are designed to be used in controlled environments such as an IT closet or data center. Unlike Industrial Ethernet switches, commercial grade Ethernet switches typically have more of a limited operating temperature range and often times have more moving parts such as cooling fans which could be a single point of failure (SPOF). Additionally, commercial grade switches will not stand up to shock and vibration as an Industrial Ethernet switch would. Another concern is mean time between failure (MTBF). Some commercial grade switches may have a lower MTBF than their industrial counterparts. Commercial grade switches typically cost less than industrial switches and are the perfect choice for controlled office/business environments.



Industrial Ethernet Switches

There is a class of Ethernet Switches referred to as Industrial Ethernet switches which are designed to work in harsh environments where extreme temperatures, vibration, dust and moisture are present. These Industrial rated switches generally have no moving parts such as fans and utilize components that are designed for extreme temperatures etc. In very moist environments or areas where condensation is present a conformal coating is sometimes used to cover the entire PCB to protect the components. Typical installations for Industrial Ethernet switches include manufacturing facilities, mining, oil production, power plants, waste water treatment plants and any other application where environmental extremes exist.



Item #	Description	List Price
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L-com 10/100/1000TX 5 and 8 Port Desktop Ethernet Switch

L-com's LC-SW805G five port and LC-SW808G eight port Gigabit Ethernet switches provide you with a high-performance, low-cost, easy-to-use, seamless upgrade to existing networks that can provide up to 1000Mbps transfer speeds between gigabit compliant equipment while still supporting older legacy equipment. Power users in home or offices can now move large, bandwidth-intensive files faster. Transfer graphics, CGI, CAD, multimedia files or any other applications that requires you to move large files across your network in a fraction of the time.

LC-SW805G	L-com 5 Port 10/100/1000 Mbps Gigabit Ethernet Switch	36.25
LC-SW808G	L-com 8 Port 10/100/1000 Mbps Gigabit Ethernet Switch	46.61

PLANET 10/100TX 5 and 8 Port Desktop Ethernet Switches

The SW series Ethernet switches from PLANET Technology provide cost-conscious businesses and home users with the foundation of an integrated system for small-office/home-office networking. These economical 10/100 switches are perfect for smaller networks of 10 to 50 users. These easy to install plug and play switches feature easy to read LEDs for monitoring network connectivity and packet flow. **As an authorized PLANET reseller, we can bid on RFQs for any PLANET part numbers. Contact us to request a non-obligatory quote.**

SW-504	PLANET 5 Port 10/100 Mbps Desktop Ethernet Switch (Plastic Case)	16.06
SW-804	PLANET 8 Port 10/100 Mbps Desktop Ethernet Switch (Plastic Case)	26.89

PLANET 10/100TX 16, 24 & 48 Port 19 Inch Rack Mount Fast Ethernet Switches

The PLANET 16, 24 & 48 port 10/100Base-TX Fast Ethernet switches provide an economical and high performance higher port density 19 inch rack mountable Ethernet switching solution. These switches provide high-speed network connections with standard 10/100 Auto-Negotiation capability on all of the RJ45/STP ports. In addition, these switches are equipped with the MDI/MDIX auto-detection for easy plug and play connections, regardless of cabling types. Both straight through and crossover cables are supported. With high-performance throughput at filtering/forwarding rate is up to 14,880 packets per second in 10 Mbps, and 148,800pps in 100 Mbps, along with its dynamic shared memory buffer. **As an authorized PLANET reseller, we can bid on RFQs for any PLANET part numbers. Contact us to request a non-obligatory quote.**

SWTC-PT1601	PLANET 16 Port 10/100 Mbps Fast Ethernet Switch	61.14
SWTC-PT2401	PLANET 24 Port 10/100 Mbps Fast Ethernet Switch	81.86
SWTC-PT4800	PLANET 48 Port 10/100 Mbps Fast Ethernet Switch	172.01

PLANET 24 100/1000 SFP Port Managed Rack Mount Switch With 4 10G SFP+ Ports

The PLANET MGSW-28240F managed rack mount switch allows for gradually updating a network from Gigabit speeds up to 10G, or in networks where requirements change. This switch has 24 100/1000 speed SFP slots, allowing for a vast array of communication options where a module can be quickly swapped out if needed. The 10G SFP+ uplinks provide a wide backbone for connecting other portions of the network. Power can be provided to this switch either via the dual terminal block, or a standard AC power cable. **As an authorized PLANET reseller, we can bid on RFQs for any PLANET part numbers. Contact us to request a non-obligatory quote.**

MGSW-28240F	PLANET 24 SFP Port Managed Switch With 4 SFP+ Ports	1167.80
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NETGEAR® 10/100TX 5, 8 and 16 Port Desktop Ethernet Switches (Metal Case)

NETGEAR's 10/100Mbps fast ethernet switches provide your LAN with economical, high-speed, 10/100 Mbps auto-sensing connectivity. Just plug in your Ethernet cables and connect a power cord and you network is up and running. These switches are engineered without the need for an internal fan, thus providing silent operation. The switches feature a very compact footprint and a sturdy metal case for years of dependable use. **As an authorized NETGEAR reseller, we can bid on RFQs for any NETGEAR part numbers. Contact us to request a non-obligatory quote.**

SWTC-FS105NA	NETGEAR 10/100Mbps 5 Port RJ45 Switch	34.17
SWTC-FS108NA	NETGEAR 10/100Mbps 8 Port RJ45 Switch	54.90
SWTC-FS108P	NETGEAR 10/100Mbps 8 Port with 4 PoE Ports Switch	182.00
SWTC-FS116NA	NETGEAR 10/100Mbps 16 Port RJ45 Switch	88.08

NETGEAR® 10/100/1000TX 24-Port plus 2 SFP Gigabit Ethernet Switch

This NETGEAR 24-port Gigabit Ethernet switch is high on value and capability. With 24 10/100/1000 Mbps ports, each capable of powering 2,000 Mbps of data throughput in full-duplex mode, plus two optional fiber ports, the SWTC-GS724T provides a fast backbone and connects servers or power users, delivering large amounts of multimedia, image, and video information in no time at all. In addition, an intuitive, web-browser interface offers SimpleSmart Switch management, making it a snap to monitor switch performance, configure ports, even set up port trunks, VLANs, and traffic prioritization. Alternatively, use SNMP-based software to manage your Smart Switch. **As an authorized NETGEAR reseller, we can bid on RFQs for any NETGEAR part numbers. Contact us to request a non-obligatory quote.**

SWTC-GS724TV4	NETGEAR 10/100/1000TX 24 Port Gigabit Ethernet Switch + 2 Optional SFP Fiber Ports	347.13
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NETGEAR® 8 1000/10GTX Port Smart Switch With 1 10G SFP+ Port

The NETGEAR SWTC-XS708E unmanaged plus 10 Gigabit switch provides a simple to set up and use high speed networking solution. This switch provides 8 10 Gig RJ45 ports and one SFP+ slot to provide additional network flexibility. With the ability to rack mount, or simply use this as a standalone switch, the SWTC-XS708E is a versatile tool to upgrade into a 10G network. **As an authorized NETGEAR reseller, we can bid on RFQs for any NETGEAR part numbers. Contact us to request a non obligatory quote.**

SWTC-XS708E	NETGEAR 8 10G RJ45 Port Switch With 1 SFP+ Port	1378.15
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EtherWAN 24 10/100/1000TX Managed Switch with 4 Gigabit SFP Slots and 4 10G SFP+ Slots

The EtherWAN EW-EX25611 managed 24 port ethernet switch is a high speed, flexible networking solution that provides 4 Gigabit SFP combo ports and 4 1/10G SFP+ ports that lets users update their network from Gigabit to 10G gradually. The combo ports will accept Gigabit SFP modules, while the 10G ports will accept either Gigabit or 10G SFP modules. **As an authorized EtherWAN reseller, we can bid on RFQs for any EtherWAN part numbers. Contact us to request a non obligatory quote.**

EW-EX25611	EtherWAN 24 10/100/1000TX RJ45 Switch With 4 SFP and 4 SFP+ Ports	2657.85
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LC-SW808G
Front View



LC-SW808G
Back View



SW-504



SWTC-PT1601



SWTC-PT2401



SWTC-PT4800



MGSW-28240F



SWTC-FS105NA



SWTC-FS108P



SWTC-GS724TV4



SWTC-XS708E



EW-EX25611



RS20800T1T1SDAE



RS32402T1T1SDAE



RS20-0800M2M2SDAE



M-SFP-LX/LC



MS20-1600SAAE



RS2-TX



EAGLE-1TX-1TX



RS2-5TX



RS2-5TX/FX



SWTC-SPIDER5TX



RH1-TP



RPS30



RPS120-EEC

Item #	Description	List Price
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Hirschmann OpenRail RS20/RS30 Managed 24V DC Industrial Ethernet Switches

Hirschmann's OpenRail line of managed industrial Ethernet switches are available with a choice of "enhanced" or "professional" firmware. Users can decide which functionality their application requires and select the appropriate firmware option without having to pay for features they do not need. Features like IGMP Snooping and HIPER Ring are available in all OpenRail switches. These robust switches also feature a USB port for backing up and restoring the configuration using an Auto-Configuration Adapter or USB drive. **As an authorized Hirschmann reseller, we can bid on RFQs for any Hirschmann part numbers. Contact us to request a non-obligatory quote.**

RS20800T1T1SDAE	Hirschmann OpenRail Switch 8 10/100TX	1165.72
RS20-1600T1T1SDAE	Hirschmann OpenRail Switch 16 10/100TX	1904.54
RS20800S2S2SDAE	Hirschmann OpenRail Switch 6 10/100TX 2 Single mode SC	1864.10
RS32402T1T1SDAE	Hirschmann OpenRail Switch 24 10/100TX 2 10/100/1000TX	3466.09
RS20-0800M2M2SDAE	Hirschmann OpenRail Switch 6 10/100TX 2 Multimode SC	1637.20
M-SFP-SX/LC	Hirschmann SFP 1000BASE-SX LC 550m	194.81
M-SFP-LX/LC	Hirschmann SFP 1000BASE-LX LC 20km	350.24
M-SFP-LH/LC	Hirschmann SFP 1000BASE-LX LC 70km	1942.88
M-SFP-LH+/LC	Hirschmann SFP 1000BASE-LX LC 120km	3419.46

Hirschmann (MICE) Managed Modular 8 Port Ethernet/Fast Ethernet Rail Switch

Hirschmann Modular Industrial Communication Equipment (MICE) Ethernet/Fast Ethernet switches offer a unique combination of network management tools, redundancy features for high availability and modular media plug-ins for versatility. The compact switches are DIN rail mountable, with redundant 24-volt power supplies and are compatible with 10BASE-T, 10BASE-FL, 100BASE-TX and 100BASE-FX. The switches will accommodate twisted pair, single mode or multimode fiber optic connections. MICE switches are made up of an integrated backplane and a modular dock that accepts the various media modules. The switches support SNMP management, web-based management, port mirroring, port security, remote monitoring (RMON), bootstrap protocol (BootP), Dynamic Host Configuration Protocol (DHCP) and Hirschmann's unique HIPER Ring. Hirschmann's HIPER Ring provides high availability through self-healing ring redundancy. The switches' rugged construction meets all standards for industrial Ethernet, making them suitable for applications where EMI interference, shock, vibration and temperature might otherwise cause concern. **As an authorized Hirschmann reseller, we can bid on RFQs for any Hirschmann part numbers. Contact us to request a non-obligatory quote.**

MS20-0800SAAE	Hirschmann MICE Backplane 2 Slots	1088.01
MS20-1600SAAE	Hirschmann MICE Backplane 4 Slots	1966.71
MS30-1602SAAE	Hirschmann MICE Backplane 4 10/100 Slots 1 Gig Slot	2440.25
MB-2T	Hirschmann 2 Slot Expansion Backplane for MS3124-4	201.02
MM2-4TX1	Hirschmann 4 10/100 Mbps RJ45 Ports	326.40
MM2-4FXM3	Hirschmann 4 100 Mbps Multimode MT-RJ Ports	1212.35
MM2-2FXM2	Hirschmann 2 100 Mbps Multimode SC Ports	652.81
MM2-2FXS2	Hirschmann 2 100 Mbps Single mode SC Ports	1336.70
MM2-2FXM3/2TX1	Hirschmann 2 10/100 Mbps RJ45s plus 2 100 Mbps Multimode MT-RJ Ports	769.90

Hirschmann 100 Mbps 24 VDC 8 Port DIN Rail Auto-negotiating Switch (8 Shielded RJ45 Ports)

The RS2-TX Rail switch provides a fast, easy and cost-effective solution for configuring small Fast Ethernet networks. Features eight auto-negotiating twisted pair ports with shielded RJ45 connectors. The 24V operating voltage is supplied via a plug-in terminal block which can be configured for redundancy. Integrated LEDs display device and network status for fast on-site troubleshooting. **As an authorized Hirschmann reseller, we can bid on RFQs for any Hirschmann part numbers. Contact us to request a non-obligatory quote.**

RS2-TX	Hirschmann DIN Rail 10/100Base-TX Switch	507.74
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Hirschmann Eagle Series Industrial Firewall System

The Hirschmann Eagle series security firewalls provide secure access to and from your Ethernet network. These IP Routers feature one trusted port and one untrusted port to control user access to critical network services such as servers and PCs. Security features include NAT, PPoE, PPTP, APR limiter MAC filtering and Kaspersky anti virus engine. These routers are powered by an external 24V DC power supply (sold separately) and are IP20 rated for harsh environments. **As an authorized Hirschmann reseller, we can bid on RFQs for any Hirschmann part numbers. Contact us to request a non-obligatory quote.**

EAGLE-1TX-1TX	Hirschmann Eagle Firewall System 1 RJ45 Trusted, 1 RJ45 Untrusted	1652.74
EAGLE-1TX-1FX	Hirschmann Eagle Firewall System 1 SC MM Trusted, 1 RJ45 Untrusted	1859.98

Hirschmann 10/100TX Industrial Compact Fast Ethernet Rail Switches

Hirschmann Industrial Compact Switches provide the industrial customer with a cost effective way to add Ethernet connectivity on the factory floor. The Hirschmann Industrial line features rugged metal enclosures and DIN Rail mounting. The switches also feature redundant 24 VDC inputs and an open relay contact to facilitate connection to PLCs, allowing reaction to malfunction or process control alarms. The FX switches feature the extended range of fiber optic cabling via an integrated multimode fiber optic port. The fiber port can be used to create a fiber optic backbone to a central control room. **As an authorized Hirschmann reseller, we can bid on RFQs for any Hirschmann part numbers. Contact us to request a non-obligatory quote.**

RS2-5TX	Hirschmann Industrial Switch 10/100 Mbps 5-Port RJ45	409.28
RS2-5TX/FX	Hirschmann Industrial Switch 10/100 Mbps 4 RJ45s + 1 Multimode MT-RJ	531.57

Hirschmann Unmanaged SPIDER 10/100TX Fast Ethernet Rail Switches

The Hirschmann SPIDER unmanaged Industrial Ethernet Rail Switches are the perfect small form factor solution for your industrial Ethernet connectivity needs. Each switch features store and forward operation which stops corrupt packets from entering your network and five RJ45 10/100Base-TX Ethernet (10 Mbit/s) and Fast-Ethernet (100 Mbit/s) Ports, which support auto-crossing, auto-negotiation, and auto-polarity. The SPIDER family utilizes a 24V DC power source (sold separately) and is DIN rail mountable. **As an authorized Hirschmann reseller, we can bid on RFQs for any Hirschmann part numbers. Contact us to request a non-obligatory quote.**

SWTC-SPIDER3TX	Hirschmann Unmanaged SPIDER 3 Port 10/100 Ethernet Rail Switch	103.62
SWTC-SPDR4TX1FX	Hirschmann Unmanaged SPIDER 4 Port 10/100 1 Port 100FX Ethernet Rail Switch	217.60
SWTC-SPIDER5TX	Hirschmann Unmanaged SPIDER 5 Port 10/100 Ethernet Rail Switch	155.43

Hirschmann 10 Mbps 24 VDC 4 Port DIN Rail Hub (4 Shielded RJ45 Ports)

The Rail Hub RH1-TP is the perfect choice and cost-effective expansion of industrial networks. This unit has four twisted pair ports and can be easily fixed on a standard DIN Rail without any further configuration. The 24 VDC operating voltage is supplied through the terminal block and can also be configured for redundancy. Built-in LEDs indicate collisions, link status, power failure and data receipt for on-site diagnostics. **As an authorized Hirschmann reseller, we can bid on RFQs for any Hirschmann part numbers. Contact us to request a non-obligatory quote.**

RH1-TP	Hirschmann 4 Port DIN Rail Hub (4 10Base-T Ports)	365.78
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Hirschmann 24 VDC DIN Rail Power Supply

As an authorized Hirschmann reseller, we can bid on RFQs for any Hirschmann part numbers. Contact us to request a non-obligatory quote.

RPS30	Hirschmann 24 VDC DIN Rail Power Supply, 1.3A	139.89
RPS80-EEC	Hirschmann 24 VDC DIN Rail Power Supply, 3.4A	225.89
RPS120-EEC	Hirschmann 24 VDC DIN Rail Power Supply, 5A	378.21

Item #	Description	List Price
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L-com 10/100TX IES-Series 5, 8 and 16 Port Industrial Fast Ethernet Switches

L-com's IES-Series Industrial Ethernet Switch line offers ease of deployment, cost savings and robust switching. These rugged industrial Ethernet switches feature auto-negotiating 10/100 RJ45 ports as well as easy to read system status LEDs. These switches are powered by an external 24V DC power supply (sold separately) and feature standard 35mm DIN rail mounting brackets. The IES-Series switches are unmanaged and can be installed in minutes providing industrial network connectivity for myriad applications including industrial automation, factory automation, process control networking and energy network connectivity.

IES-2205	L-com IES-Series 5 Port 10/100TX Industrial Ethernet Switch	122.27
IES-2208	L-com IES-Series 8 Port 10/100TX Industrial Ethernet Switch	184.44
IES-2216	L-com IES-Series 16 Port 10/100TX Industrial Ethernet Switch	443.49

L-com 10/100TX +2 Port 100FX IES-2206 Series Industrial Fast Ethernet Switches

The IES-2206 Series Industrial Ethernet Switches feature four 10/100TX RJ45 ports and two fiber SC ports supporting Ethernet IP communications at 100Mbps. These easy to install DIN rail mountable industrial Ethernet switches are perfect for applications where IP enabled devices require networked communications. The rugged switches can be mounted to standard 35mm DIN rail and are powered by a 24V DC power supply (sold separately). Easy to read LEDs provide at-a-glance system monitoring.

IES-2206-M2	L-com IES-2206 4 Port 10/100TX, 2 Port 100FX SC MM 2km	225.89
IES-2206-S20	L-com IES-2206 4 Port 10/100TX, 2 Port 100FX SC SM 20km	256.98
IES-2206-S40	L-com IES-2206 4 Port 10/100TX, 2 Port 100FX SC SM 40km	298.43
IES-2206-S60	L-com IES-2206 4 Port 10/100TX, 2 Port 100FX SC SM 60km	567.84
IES-2206-S80	L-com IES-2206 4 Port 10/100TX, 2 Port 100FX SC SM 80km	961.59

L-com 10/100TX +2 Port 100FX IES-2210 Series Industrial Fast Ethernet Switches

L-com's IES-2210 series Industrial Ethernet Switches feature eight 10/100TX RJ45 ports and two fiber SC ports supporting Ethernet IP communications at 100Mbps. These easy to install DIN rail mountable industrial Ethernet switches are perfect for applications where IP enabled devices require networked communications. The rugged switches can be mounted to standard 35mm DIN rail and are powered by a 24V DC power supply (sold separately). Easy to read LEDs provide at-a-glance system monitoring. The IES-Series switches are unmanaged and can be installed in minutes providing industrial network connectivity for myriad applications including industrial automation, factory automation, process control networking and energy network connectivity.

IES-2210-M2	L-com IES-2210 8 Port 10/100TX, 2 Port 100FX SC MM 2km	381.32
IES-2210-S20	L-com IES-2210 8 Port 10/100TX, 2 Port 100FX SC SM 20km	433.13
IES-2210-S40	L-com IES-2210 8 Port 10/100TX, 2 Port 100FX SC SM 40km	474.58
IES-2210-S60	L-com IES-2210 8 Port 10/100TX, 2 Port 100FX SC SM 60km	723.27
IES-2210-S80	L-com IES-2210 8 Port 10/100TX, 2 Port 100FX SC SM 80km	1117.02

L-com 10/100TX +4 Port 100FX IES-2220 Series Industrial Fast Ethernet Switches

IES-2220 series Industrial Ethernet Switches are perfect for applications where IP enabled devices require networked communications. The rugged switches can be mounted to standard 35mm DIN rail and are powered by a 24V DC power supply (sold separately). Easy to read LEDs provide at-a-glance system monitoring. These IES-Series switches are unmanaged and can be installed in minutes providing industrial network connectivity for myriad applications including industrial automation, factory automation, process control networking and energy network connectivity.

IES-2220-M2	L-com IES-2220 16 Port 10/100TX, 4 Port 100FX SC MM 2km	764.72
IES-2220-S20	L-com IES-2220 16 Port 10/100TX, 4 Port 100FX SC SM 20km	785.44
IES-2220-S40	L-com IES-2220 16 Port 10/100TX, 4 Port 100FX SC SM 40km	857.97
IES-2220-S60	L-com IES-2220 16 Port 10/100TX, 4 Port 100FX SC SM 60km	1127.39
IES-2220-S80	L-com IES-2220 16 Port 10/100TX, 4 Port 100FX SC SM 80km	1397.83

24 Volt DC DIN Rail Mount Power Supplies

The LCPS series of power supplies provide a cost effective and reliable 24V DC power source for L-com's line of industrial Ethernet switches and media converters. These units can be installed on any standard 35mm DIN Rail and are NEC Class 2/LPS compliant. They also provide protection against short circuits, overloads and over voltages.

LCPS-4024	DIN Rail Mount Power Supply 24V DC 40W (1.6A)	81.86
LCPS-6024	DIN Rail Mount Power Supply 24V DC 60W (2.5A)	93.26



IES-2205

IES-2208



IES-2210



IES-2206



IES-2210



IES-2220

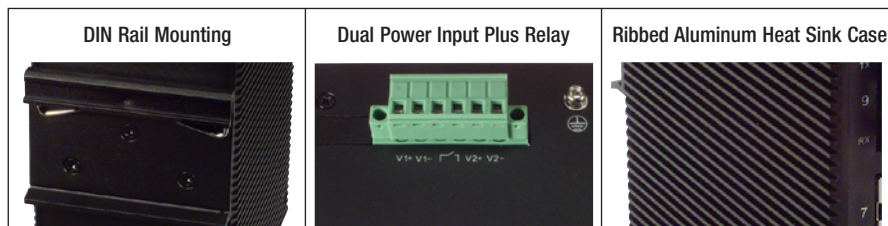


LCPS-4024



LCPS-6024

IES Series Industrial Ethernet Switches



- 10Base-T/100Base-TX Full/Half Duplex support
- MDI-MDI-X support
- Broadcast Storm protection
- Redundant power inputs
- Fan-less design
- DIN Rail mounting
- MAC Address Table Size: 1K
- Forwarding Rate: 148,800pps
- Operating Temp: -40°C to +70°C
- Relay output option for visual or audible alarms



EW-EX17008



EW-EX42005-00-1-A



EW-EX61800A-00B



EW-EX94008-00-1-A



EW-EX71800-00B



EW-48VDC-120

Item #	Description	List Price
EtherWAN 10/100TX PoE Switches -Web Based Management		
EtherWAN's EX17000 series PoE 10/100BASE Fast Ethernet Web-Smart PoE Ethernet Switches are designed to operate in the small or medium network environment to provide power to PoE driven devices, such as PoE IP cameras. These PoE switches may be desktop or rack mounted and all ports support IEEE802.3af Power over Ethernet (PoE) Power Sourcing Equipment (PSE) and can detect an IEEE802.3af compliant Powered Device (PD). Additionally the EX17000 series switches feature a web browser interface that allows the user to configure IP settings, Port Based VLAN, QoS settings, and more. As an authorized EtherWAN reseller, we can bid on RFQs for any EtherWAN part numbers. Contact us to request a non-obligatory quote.		
EW-EX17008	EtherWAN Web Based Managed Industrial Ethernet Switch 8 10/100TX PoE Ports	249.00
EW-EX17016	EtherWAN Web Based Managed Industrial Ethernet Switch 16 10/100TX PoE Ports	413.00
EW-EX17082	EtherWAN Web Based Managed Industrial Ethernet Switch 8 10/100TX PoE Ports + 2GIG SFP Combo	393.00
EW-EX17162	EtherWAN Web Based Managed Industrial Ethernet Switch 16 10/100TX PoE Ports + 2GIG SFP Combo	543.98
EW-EX17242	EtherWAN Web Based Managed Industrial Ethernet Switch 24 10/100TX PoE Ports + 2GIG SFP Combo	855.00

EtherWAN 10/100TX Unmanaged Industrial Fast Ethernet Switches (Some Models Include 100FX Duplex SC Fiber Ports)

The EX42000 & EX43000 series compact Fast Ethernet Switches are equipped with 10/100Base-TX RJ45 ports and multimode or single mode fiber uplink ports. By using standard auto-negotiation and the inclusion of auto-MDIX, EtherWAN provides a cost-effective way of integrating legacy 10Mbps networks with 100Mbps Fast Ethernet networks. The TX ports auto-negotiate for 10/100Mbps speed and auto-detect full or half-duplex mode. EX42000 & EX43000 series switches can be DIN-Rail mounted and are equipped with terminal block power inputs. **As an authorized EtherWAN reseller, we can bid on RFQs for any EtherWAN part numbers. Contact us to request a non-obligatory quote.**

EW-EX42000-00-1-A	EtherWAN Unmanaged Industrial Ethernet Switch 5 10/100TX Ports	93.26
EW-EX42014-1A-1-A	EtherWAN Unmanaged Industrial Ethernet Switch 4 10/100TX Ports + 1 100FX, MM, 2Km, SC	191.70
EW-EX42014-2A-1-A	EtherWAN Unmanaged Industrial Ethernet Switch 4 10/100TX Ports + 1 100FX, SM, 20Km, SC	300.50

EtherWAN 10/100TX Managed Industrial Fast Ethernet Switch (Some Models with 1000SX or 1000LX Duplex SC Fiber Ports)

The EX61800 series is designed to operate in harsh environments on the factory floor. The EX61800 functions at temperatures ranging from -10°C to 60°C (14°F to 140°F). The EX61800 will provide flawless communications when you need it most. The EX61800 is a managed switch with the flexibility of eight 10/100 Ethernet ports that may be configured in various combinations of copper and fiber optic interfaces. **As an authorized EtherWAN reseller, we can bid on RFQs for any EtherWAN part numbers. Contact us to request a non-obligatory quote.**

EW-EX61800A-00B	EtherWAN Managed Industrial Ethernet Switch 8 10/100TX Ports	626.88
EW-EX61801A-03B	EtherWAN Managed Industrial Ethernet Switch 8 10/100TX Ports + 1 1000SX, MM, 550M, SC	797.85
EW-EX61801A-04B	EtherWAN Managed Industrial Ethernet Switch 8 10/100TX Ports + 1 1000LX, SM, 10Km, SC	875.57
EW-EX61802A-03B	EtherWAN Managed Industrial Ethernet Switch 8 10/100TX Ports + 2 1000SX, MM, 550M, SC	968.83
EW-EX61802A-04B	EtherWAN Managed Industrial Ethernet Switch 8 10/100TX Ports + 2 1000LX, SM, 10Km, SC	1119.08

EtherWAN 10/100TX Unmanaged NEMA Hardened Fast Ethernet Switch (-40°C to +75°C)

The EX94000 Unmanaged NEMA Hardened Fast Ethernet Switch is designed to function at temperatures ranging from -40°C to 75°C (-40°F to 167°F) and tested for functional operation up to 85°C (185°F). Equipped with 10/100Base-TX RJ45 ports and multimode or single mode fiber uplink ports, they may be DIN rail, panel or rack mounted. The EX94000 series comes with power options to match the applications that require a tough, environmentally hardened product. Complies with NEMA TS1 & TS2 environmental requirements for traffic control equipment, complies with IEC61000-6-2 EMC generic standard immunity for Industrial environment ISA 12.12.01 (UL1604) Class I, and Division 2 Classified for use in hazardous locations (applicable to versions with DC Terminal Block power option). The variable power terminal block input can support voltages ranging from 12 to 48 VDC. **As an authorized EtherWAN reseller, we can bid on RFQs for any EtherWAN part numbers. Contact us to request a non-obligatory quote.**

EW-EX94008-00-1-A	EtherWAN Unmanaged NEMA Hardened Ethernet Switch 8 10/100TX Ports	259.03
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EtherWAN 10/100TX Managed NEMA Hardened Fast Ethernet Switches (-40°C to +75°C)

The EX71000 series of Managed NEMA Hardened Fast Ethernet Switches are designed to function at temperatures ranging from -40°C to 75°C (-40°F to 167°F) and are tested for functional operation up to 85°C (185°F). Equipped with 10/100Base-TX RJ45 ports and multimode or single mode fiber uplink ports, they may be DIN rail, panel or rack mounted. The EX71000 series comes with power options to match the applications that require a tough, environmentally hardened product. Complies with NEMA TS1 & TS2 environmental requirements for traffic control equipment, complies with IEC61000-6-2 EMC generic standard immunity for Industrial environment ISA 12.12.01 (UL1604) Class I, and Division 2 Classified for use in hazardous locations (applicable to versions with DC Terminal Block power option). The variable power terminal block input can support voltages ranging from 12 to 48 VDC. **As an authorized EtherWAN reseller, we can bid on RFQs for any EtherWAN part numbers. Contact us to request a non-obligatory quote.**

EW-EX71800-00B	EtherWAN Managed NEMA Hardened Ethernet Switch 8 10/100TX Ports	803.03
EW-EX71802-01B	EtherWAN Managed NEMA Hardened Ethernet Switch 8 10/100TX Ports + 1 100FX, MM, 2Km, SC	994.73
EW-EX71802-04B	EtherWAN Managed NEMA Hardened Ethernet Switch 8 10/100TX Ports + 1 100FX, SM, 20Km, SC	1378.13

EtherWAN 24V and 48V AC/DC DIN Rail Power Supplies

EtherWAN offers several versions of AC/DC DIN Rail power supplies for providing safety low voltage to its Industrial Ethernet Switch and media converter lines. The EW-24VDC-30 provides 24 VDC power @ 30 watts to connected equipment and the EW-48VDC-120 provides up to 48 volt DC @ 120 Watts. **As an authorized EtherWAN reseller, we can bid on RFQs for any EtherWAN part numbers. Contact us to request a non-obligatory quote.**

EW-24VDC-30	EtherWAN Unmanaged 24V DC 30 Watt (1.25A) DIN Rail Power Supply	81.86
EW-24VDC-60	EtherWAN Unmanaged 24V DC 60 Watt (2.5A) DIN Rail Power Supply	129.53
EW-24VDC-75	EtherWAN Unmanaged 24V DC 75 Watt (3A) DIN Rail Power Supply	176.15
EW-48VDC-75	EtherWAN Unmanaged 48V DC 75 Watt (1.5A) DIN Rail Power Supply	176.15
EW-48VDC-120	EtherWAN Unmanaged 48V DC 120 (2.5A) Watt DIN Rail Power Supply	195.84

Item #	Description	List Price
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NETGEAR® ReadyNAS 100 Series - Network Storage Servers (Home)

NETGEAR's Ready NAS 100 Series is designed to service between 1-5 simultaneous users. The ReadyNAS 100 is an ideal desktop storage and media server solution for the home as it provides an easy way to centralize access and share your digital world, including, but not limited to, photographs, video clips, songs, web sites, and text messages.

Much more than just simple storage for all your information, every ReadyNAS features unprecedented protection of your files, the ability to manage stored data from any web enabled device and a library of add-ons that allow you to do more with your storage than you ever thought possible. Every networked attached storage (NAS) device from NETGEAR runs on the revolutionary ReadyNAS operating system. Designed with ease-of-use in mind, new devices are discovered automatically through the cloud and feature a sleek, modern interface. Also, stored data is protected not only with automatic RAID configuration, but this ReadyNAS is the first to offer home users the continuous data protection of unlimited snapshots along with real-time anti-virus and native encryption. In addition to the confidence of knowing data is secure from virtually any threat, ReadyNAS features remote access innovations, seamless cloud-based file synchronization (ReadyDROP) and the ability to backup data from your Mac anywhere in the world when using Apple Time Machine®. Detailed specifications can be found at L-com.com. **As an authorized NETGEAR reseller, we can bid on RFQs for any NETGEAR part numbers. Contact us to request a non-obligatory quote.**

RN10200-100NAS	NETGEAR ReadyNAS 102 2-Bay, Diskless	298.43
RN10400-100NAS	NETGEAR ReadyNAS 104 4-Bay, Diskless	525.35
RN10211D-100NAS	NETGEAR ReadyNAS 102 2-Bay, 1x1TB Desktop Drive	419.66
RN10421D-100NAS	NETGEAR ReadyNAS 104 4-Bay, 2x1TB Desktop Drive	751.25



RN10400-100NAS

NETGEAR® ReadyNAS 300 Series - Network Storage Servers (Business Class/Small Office)

NETGEAR's ReadyNAS 300 series is designed to service between 5-25 simultaneous users, the ReadyNAS 300 is an ideal desktop storage solution for small offices. Application data, virtual images, client files, email, etc, the types of data central to running a successful business can seem endless. With ReadyNAS you finally have an advanced and easy-to use solution for centralizing, securing and controlling access to your digital assets. More than just simple unified (NAS and SAN) storage for your company, ReadyNAS allows you to do more than you ever thought you could afford by pairing the latest in performance with innovative efficiency technologies such as unlimited snapshots, thin provisioning and cloud-managed replication.

Every networked attached storage (NAS) device from NETGEAR runs on the revolutionary ReadyNAS operating system. This custom-built OS protects stored data not only with XRAID2 automatic expansion, but is the first desktop NAS for the SMB to feature the continuous data protection of unlimited snapshots along with real-time anti-virus and native encryption. Designed specifically for the unique needs of small business users, ReadyNAS devices utilize proprietary ReadyCLOUD technology for cloud-based discovery, provisioning and even ongoing management. In addition, these new devices are virtualization-ready with iSCSI support, thin provisioning capability and certification with VMware and Microsoft. Detailed specifications can be found at L-com.com. **As an authorized NETGEAR reseller, we can bid on RFQs for any NETGEAR part numbers. Contact us to request a non-obligatory quote.**

RN31200-100NAS	NETGEAR ReadyNAS 312, 2-Bay, Diskless	675.60
RN31400-100NAS	NETGEAR ReadyNAS 314, 4-Bay Diskless	937.76
RN31600-100NAS	NETGEAR ReadyNAS 316, 6-Bay Diskless	1188.52
RN31211D-100NAS	NETGEAR ReadyNAS 312, 2-Bay, 1x1TB Desktop Drive	784.40
RN31421D-100NAS	NETGEAR ReadyNAS 314, 4-Bay, 2x1TB Desktop Drive	1178.16
RN31661D-100NAS	NETGEAR ReadyNAS 316, 6-Bay, 6x1TB Desktop Drive	1874.49



RN31200-100NAS



RN31400-100NAS

NETGEAR® ReadyNAS 500 Series - Network Storage Servers (Business Class/Small Office)

NETGEAR's ReadyNAS 500 series is designed to service between 25 - 250 simultaneous users, the ReadyNAS 500 is an ideal desktop storage solution for a small or medium size business. Application data, virtual images, client files, email, etc., the types of data central to running a successful business can seem endless. With ReadyNAS you finally have an advanced and easy-to use solution for centralizing, securing and controlling access to your digital assets. More than just simple unified (NAS and SAN) storage for your company, ReadyNAS allows you to do more than you ever thought you could afford by pairing the latest in performance with innovative efficiency technologies such as unlimited snapshots, thin provisioning and cloud-managed replication.

Every networked attached storage (NAS) device from NETGEAR runs on the revolutionary ReadyNAS operating system. This custom-built OS protects stored data not only with XRAID2 automatic expansion, but is the first desktop NAS for the SMB to feature the continuous data protection of unlimited snapshots along with real-time anti-virus and native encryption. Designed specifically for the unique needs of small business users, ReadyNAS devices utilize proprietary ReadyCLOUD technology for cloud-based discovery, provisioning and even ongoing management. In addition, these new devices are virtualization-ready with iSCSI support, thin provisioning capability and certification with VMware and Microsoft. Detailed specifications can be found at L-com.com. **As an authorized NETGEAR reseller, we can bid on RFQs for any NETGEAR part numbers. Contact us to request a non-obligatory quote.**

RN51600-100NAS	NETGEAR ReadyNAS 516, 6-Bay Diskless	1894.17
RN51661E-100NAS	NETGEAR ReadyNAS 516, 6-Bay, 6x1TB Enterprise Drive	2867.17
RN51662E-100NAS	NETGEAR ReadyNAS 516, 6-Bay, 6x4TB Enterprise Drive	3802.85



RN51662E-100NAS

NETGEAR® ReadyNAS EDA500 - Expand the Capacity of your ReadyNAS 300 or ReadyNAS 500 Device

EDA500-100NAS	NETGEAR ReadyNAS Expansion Chassis, 5-Bay Diskless	737.77
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NETGEAR® ReadyNAS 2120 Series - Network Storage Servers (Rack Mount Business Class/Small Office)

NETGEAR's ReadyNAS 2120 series is designed to service between 5-25 simultaneous users, the ReadyNAS 2120 is an ideal rack mount storage solution for small offices. Application data, virtual images, client files, email, etc, the types of data central to running a successful business can seem endless. With ReadyNAS you finally have an advanced and easy-to use solution for centralizing, securing and controlling access to your digital assets. More than just simple unified (NAS and SAN) storage for your company, ReadyNAS allows you to do more than you ever thought you could afford by pairing the latest in performance with innovative efficiency technologies such as unlimited snapshots, thin provisioning and cloud-managed replication.

Every networked attached storage (NAS) device from NETGEAR runs on the revolutionary ReadyNAS operating system. This custom-built OS protects stored data not only with XRAID2 automatic expansion, but is the first desktop NAS for the SMB to feature the continuous data protection of unlimited snapshots along with real-time anti-virus and native encryption. Designed specifically for the unique needs of small business users, ReadyNAS devices utilize proprietary ReadyCLOUD technology for cloud-based discovery, provisioning and even ongoing management. In addition, these new devices are virtualization-ready with iSCSI support, thin provisioning capability and certification with VMware and Microsoft. Detailed specifications can be found at L-com.com. **As an authorized NETGEAR reseller, we can bid on RFQs for any NETGEAR part numbers. Contact us to request a non-obligatory quote.**

RN2120-100NAS	NETGEAR ReadyNAS 2120, 1U, 4-Bay Diskless	1822.68
RN21241D-100NAS	NETGEAR ReadyNAS 2120, 1U, 4-Bay, 4x1TB Desktop Drive	2271.35
RN21242D-100NAS	NETGEAR ReadyNAS 2120, 1U, 4-Bay, 4x2TB Desktop Drive	2458.90



EDA500-100NAS



RN2120-100NAS