GE
Digital Energy

MultiLink™ Hardened Ethernet Switches

Ethernet Communications for Industrial Automation, Power Utility & Traffic Control Markets

The MultiLink family is a superior line of Hardened Ethernet Switches that has the flexibility and features to fit all of your Industrial, Substation, and Transportation Networking needs. The MultiLink line of Managed and Unmanaged switches are designed for the unique needs of the protection and control industry and are unsurpassed in the areas of Network Security, Industrial Robustness and Network Reliability. The EnerVista Suite of Software products that support the MultiLink switches will simplify the configuration and diagnosing of your MultiLink switches and allow the data and alarms from your MultiLinks to be integrated into your monitoring and control systems.

Key Benefits

- Physically hardened and environmentally ruggedized for reliability in harsh environments
- Harsh chemical environment option available for circumstances that are corrosive or otherwise damaging to electronic equipment
- Enables cyber protection and network integrity with advanced security features
- Forensic auditing of activities and changes using event logging
- Flexible options for Ethernet port and media types allow integration into any project requirement
- Supports intelligent traffic planning and integration with network management systems using a complete set of Ethernet switch management functions
- Support for high speed recovery of redundant LANs for mission-critical applications Simple, powerful, and easy configuration using web management software
- Fully supported and viewable using EnerVista™ Viewpoint Monitoring

Applications

- Safely and reliably extends Ethernet networks to harsh production environments for utility and industrial applications
- Allows critical devices to be managed, analyzed, or controlled from a single location
- Enables high speed, redundant connections to GE Universal Relays

imagination at work

Managed Networks

- Supports SNMPv3, with full backwards compatibility for v1 & v2
- Traffic segregation and prioritization control via IEEE® 802.1p & IEEE 802.1Q
- Hardware and software alarm contacts for detection of critical network or switch events
- Fully integrates with Viewpoint Monitoring software

Ease of Use

- Support for industrial protocols
- IP out-of-the-box for easy installation
- Simple but powerful web management interface for all configuration functions

Secure

- Secure management via SSL
- Port security prevents unauthorized devices gaining access to the network
- Multi-level passwords with levels of privilege and command for different users or groups
- Complete event logging for forensic and regulatory auditing and reporting

Industrially Hardened

- UL® listed/CE agency approved
- IEC® 61850 & IEEE 1613 for operation in electric substation environments
- Redundant and mixed power supply options for increased reliability
- Harsh chemical environment options ensures product function and viability
- RoHS (Reduction of Hazardous Substances) compliant

Ethernet Switches Designed for the Unique Needs of Critical Infrastructures

Designed for the Needs of Protective Relaying

The MultiLink Ethernet Switches have been designed for the specific requirements of devices used in utility and industrial environments, such as protective relays. MultiLink Ethernet Switches support many unique features that allow for full redundancy under network fault conditions.

Link Loss Alert

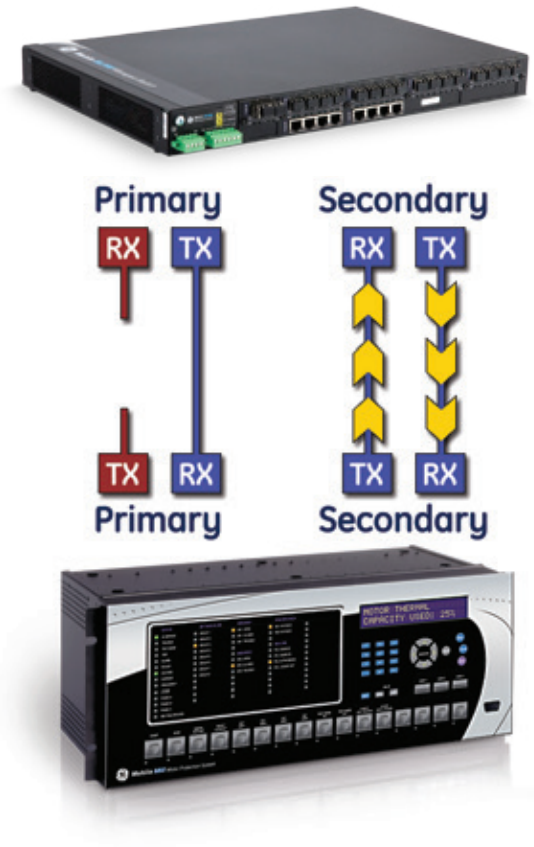
The MultiLink Ethernet Switch family's Link Loss Alert feature allows for protective relays to recover from situations where only one of the fiber cables connected to the relay is damaged. The Link Loss Alert feature works with both 10Mbit and 100Mbit fiber ports of GE's Multilin™ Universal Relay, and allows for seamless switching to the relay's secondary port under all network fault conditions.

Modbus Protocol Support

Identifying network communication problems and retrieving network statistics from the MultiLink Ethernet Switches can now be achieved in SCADA or DCS systems through the use of the supported Modbus TCP/IP protocol. Modbus is a protocol supported by most Human Machine Interfaces and PLC's and can therefore be integrated into existing systems without having to invest in additional SNMP or other Network Management Software.

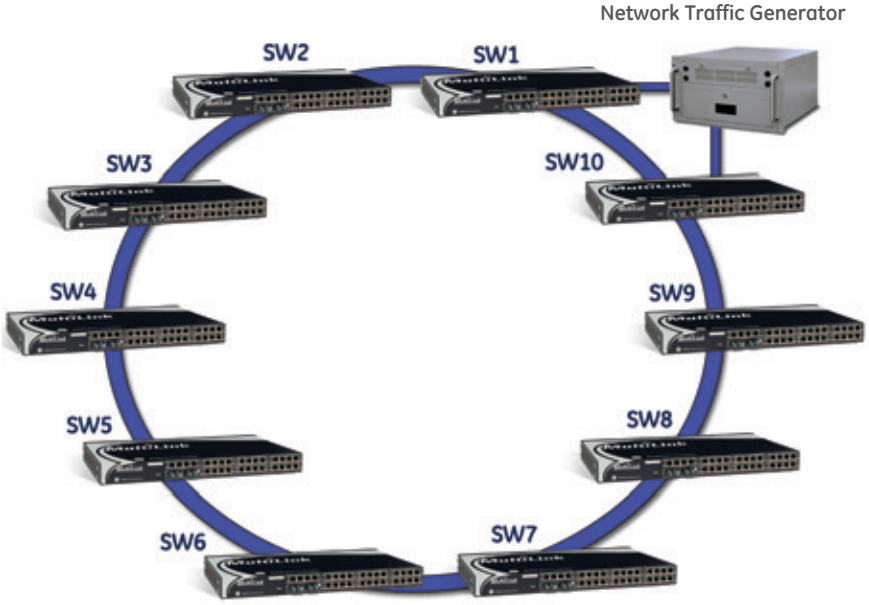
Enhanced High Speed Recovery of Redundant Ring Networks

The unique requirements of the Protection and Control Industry require Ethernet networks to be more reliable and to recover from network problems faster than is generally accepted in other commercially available equipment. The MultiLink Ethernet Switch's SMART RSTP feature allows for recovery from faults in ring network architectures in less than 5 milliseconds per switch in the network – 10 times faster than generally available in standard Ethernet switches.



Link Loss Alert allows recovery from a broken fiber connection in both 10Mbit and 100Mbit applications.

Network Fault Recovery Using MultiLink Ethernet Switches



Fault Between Switches	Recovery Time Per Switch (Hop)
SW1-SW2	1.90 ms
SW2-SW3	2.12 ms
SW3-SW4	2.11 ms
SW4-SW5	2.29 ms
SW5-SW6	1.95 ms
SW6-SW7	2.06 ms
SW7-SW8	2.18 ms
SW8-SW9	1.82 ms
SW9-SW10	2.27 ms
SW10-SW1	0.00 ms

Network recovery times.

Example of network fault recovery testing using MultiLink SMART RSTP in a ring network architecture.

Robust Ethernet Switches for Providing Secure and Reliable Networks

Ideal for Harsh Environments

GE's MultiLink Ethernet Switches have been tested and certified to meet the same rigorous environmental standards as all of our protection relays and meters.

- Operating temperature -40°C to +85°C without fans
- Type tested to IEC 61850-3, IEEE 1613 Class 2, NEBS level 3 substation requirements
- IP40 Rated
- Dual power supply option with the ability to mix the input sources used (i.e. 48 VDC and 125 VDC)

Enhanced Security

The MultiLink family of Ethernet Switches have implemented the most advanced techniques available for providing security in network communications including:

- SNMP v1/v2/v3 supplying secure access to network devices through authentication, and encryption
- Imbedded RADIUS and TACACS+ security for remote access and password verification
- SSL web encryption preventing eavesdropping, tampering or message forgery
- Port security through the disabling of packets from unauthorized MAC addresses
- Logging of events and sending email notification of unauthorized access attempts

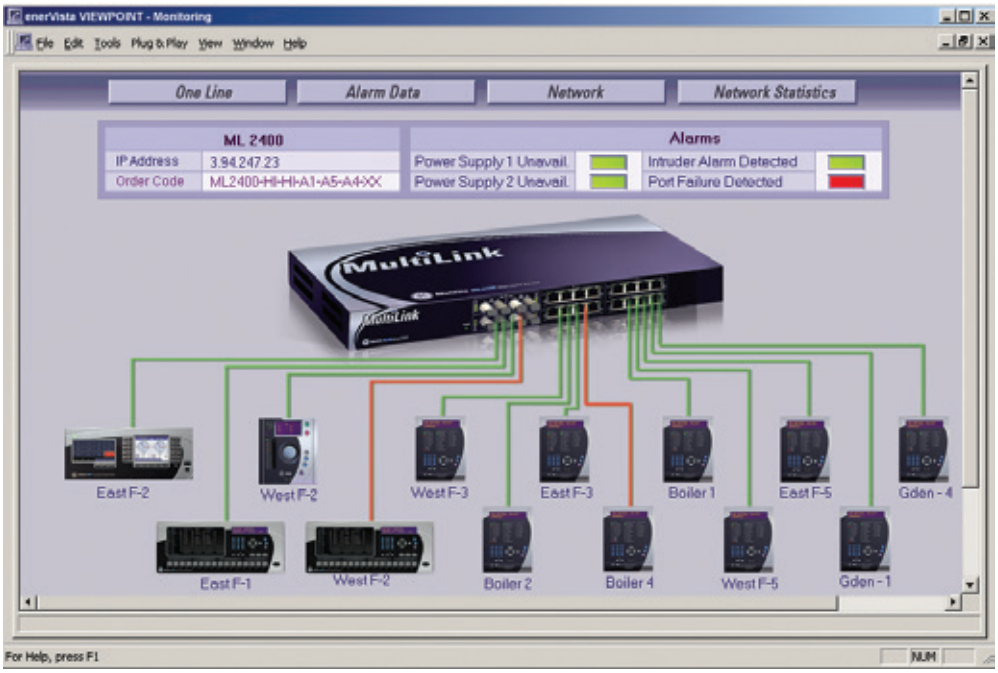
Full Network Management Capabilities

The MultiLink Ethernet Switches support most 802.1 network management features and are configurable using the Command Line Interface (CLI) and through our web management interface. Management functionality includes:

- SNMPv3 for secure configuration of network switches
- Full support of the CLI commands
- Web management interface for user-friendly configuration and monitoring
- RSTP (802.1w) industry standard method for providing recovery of redundant networks
- SMART RSTP (ring only mode) for enhanced fast recovery (<5ms/hop) of ring architecture networks
- RMON for monitoring of network status and statistics
- VLAN (802.1Q) providing the ability of segregating the network into smaller virtual networks (up to 256)
- QoS- (802.1Q) for prioritization of network traffic
- Port mirroring, assisting network troubleshooting
- IGMP snooping, enabling reductions in multicast traffic
- SNTP for synchronizing the switch's internal clock
- SMTP providing email notification when problems in the network have occurred
- Event logs creating a historical record of events occurring on the network
- IPv6 support, allowing for more addressable devices in a network

EnerVista Viewpoint Monitoring and Integrator Supported

The MultiLink Ethernet Switches are fully supported by the EnerVista Viewpoint Monitoring and Integrator software packages, allowing integration of LAN status, network alarm problems, and security alerts into your monitoring and control system.



EnerVista Viewpoint Monitoring provides monitoring of the status of all network ports, indication of network problems and alarming of unauthorized network access attempts.

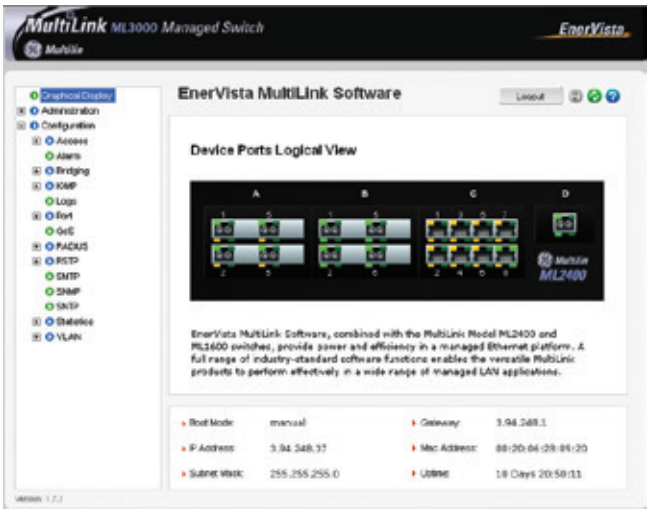
EnerVista Web Interface Provides User-Friendly Configuration and Network Monitoring

Easy-to-Use Web Configuration and Reporting Software

The EnerVista Web configuration software allows programming of all settings in the MultiLink Ethernet Switches using a simple web browser. Accessible by typing the pre-configured IP address of your switch into the address bar of a web browser, the user-friendly graphical interface allows for easy navigation, monitoring and configuration through simple point and click operations.

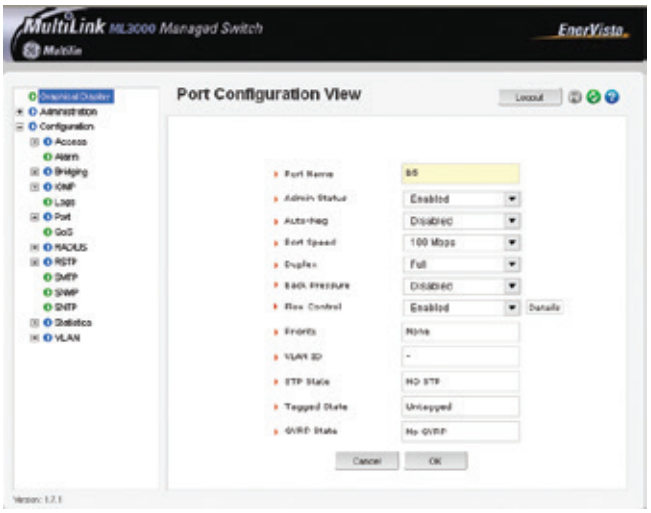
Communication Status & Port Navigation

- Instant graphical indication of the status of all communication ports
- Identify the configuration of all communication parameters
- The ability to click on any of the shown Ethernet terminals to jump immediately to the settings screen for that port



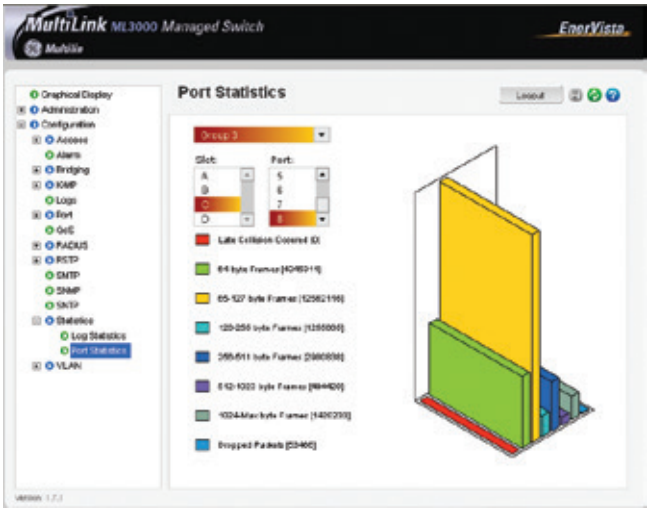
Intuitive Menu-Driven Configuration

- Navigate through configuration screens using an easy to understand categorized menu tree
- Configure all settings using menu-driven pull-down fields
- Program alarm triggers by selecting from a list of all possible conditions
- Eliminate the need to memorize any CLI commands



Powerful Troubleshooting Statistics

- Monitor traffic statistics using intuitive bar graph representations
- Identify the amount and type of traffic sent and received through each port of the switch
- Simplify troubleshooting by identifying the number of CRC errors, collisions, and dropped packets occurring on each port
- Clear and restart the capturing of port statistics to allow for the troubleshooting of specific network problems



Managed Switches

The MultiLink ML3000 Series, ML2400, ML1600, ML1200, ML810 and ML800 Managed Ethernet Switches provide extremely reliable networks with very fast reconfiguration times for recovering from faults occurring in the network. The complete set of network management functions available provides the configurability and monitoring capability needed for most applications, while the high level of security features available ensures your network is protected from tampering or illegal access.

ML3000 Series

ML3000 Series supports (model dependent):
Up to 32 ports 10/100 Mbit copper RJ45
Up to 16 ports 10 or 100 Mbit fiber
Up to 8 ports GigE fiber or copper
Up to 18 fiber ports depending on configuration
1588v2 timing
Redundant power supplies
Field replaceable power supply models available

ML810

ML810 supports:
8 ports 10/100 Mbit copper RJ45
4 ports LC, ST, SC or MTRJ fiber
2 ports 1 Gbit fiber or copper RJ45

Unmanaged Compact Switch

The ML600 Unmanaged Ethernet Switch provides the ability to connect remote sites or stations that contain few Ethernet devices to your local network in a cost effective manner. The ML600 can be configured with several different port configurations allowing for use with many different device types and can be connected to other Ethernet switches, forming a ring architecture that provides redundancy throughout your critical networks.

ML600

ML600 supports:
6 ports 10/100 Mbit copper RJ45
2 ports 100 Mbit ST, or SC fiber
High voltage AC power supply

PORT TYPE	TYPICAL DISTANCE	POWER BUDGET
10/100 Mbit RJ45 Copper	100 m	N/A
10 Mbit Multimode ST Fiber Optic	2 km	17 dB
100 Mbit Multimode ST Fiber Optic	2 km	14 dB
100 Mbit Multimode SC Fiber Optic	2 km	14 dB
100 Mbit Singlemode SC Fiber Optic	20 km	17.5 dB
100 Mbit Singlemode SC Fiber Optic	40 km	17.5 dB
100 Mbit Multimode LC Fiber Optic	2 km	14 dB
100 Mbit Singlemode LC Fiber Optic	15 km	17.5 dB
100 Mbit Multimode MTRJ Fiber Optic	2 km	14 dB

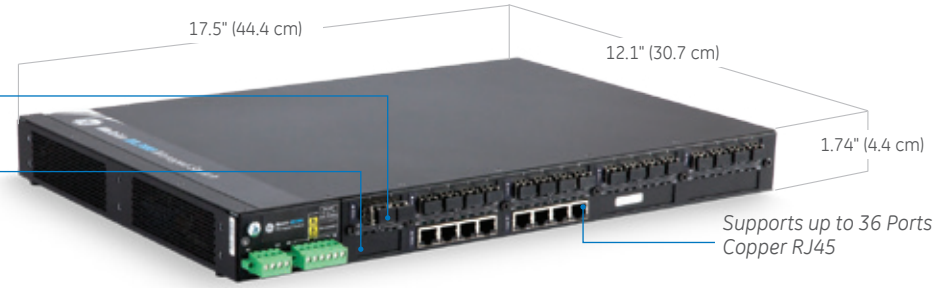
Port Selector Guide

1 Gbit RJ45 Copper	100 m	N/A
1 Gbit Multimode SC Fiber Optic	2 km	12.5 dB
1 Gbit Singlemode 1310nm SC Fiber Optic	10 km	10.5 dB
1 Gbit Singlemode 1310nm SC Fiber Optic	25 km	17.5 dB
1 Gbit Singlemode 1550nm SC Fiber Optic	40 km	17.5 dB
1 Gbit Singlemode 1550nm SC Fiber Optic	70 km	20.5 dB
100 Mbit Multimode MTRJ Fiber Optic	2 km	15.8 dB

ML3000 Series

Supports up to 16, 10 or 100Mbit, ST, SC, LC or MTRJ Fiber Ports

Supports up to 8 Ports Gigabit Copper or Fiber and 1588v2 Timing



Ordering

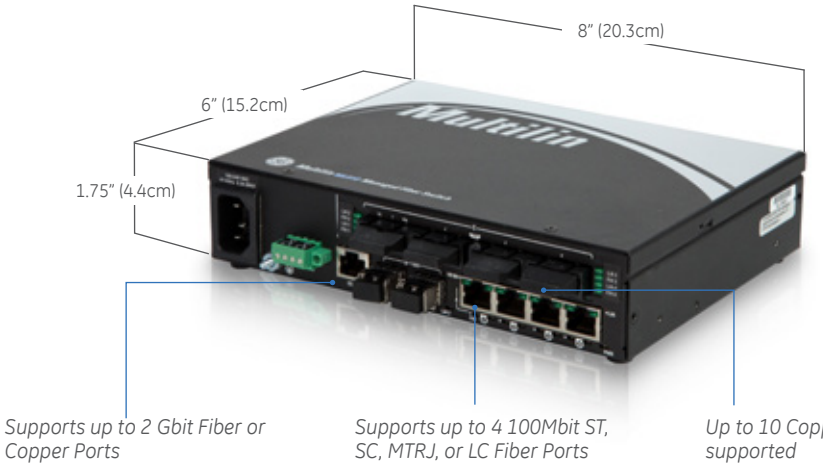
			GigE		10 or 100Mbps								
			1	2	3	4	5	6	7	8	9	10	
ML3000	*	**	*	*	*	*	*	*	*	*	*	*	*	**ML3000 Chassis with Fixed Power Supplies**
Mounting	F													Front Mounted Ports
	B													Rear Mounted Ports
Power Supply		HX												Single Integrated 90 to 250V AC/DC Power Supply
		HH												Dual Integrated 90 to 250V AC/DC Power Supplies
		LX												Single Integrated 22 to 60 VDC Power Supply
		LL												Dual Integrated 22 to 60 VDC Power Supplies
		P1												Single Integrated 22 to 60 VDC Power Supply with PoE Support
		P2												Dual Integrated 22 to 60 VDC Power Supply with PoE Support
		HL												Combination of a 90 to 250V AC/DC and a 22 to 60 VDC Power Supply
Gigabit			A	A										2 x 1000 Mbits RJ45 Fixed Ports
			B	B										2 x 1000 Mbit SFP, LC Connector, Multimode Fiber, 550m
			C	C										2 x 1000 Mbit SFP, LC Connector, Singlemode Fiber, 2km
			D	D										2 x 1000 Mbit SFP, LC Connector, Singlemode Fiber, 10km
			E	E										2 x 1000 Mbit SFP, LC Connector, Singlemode Fiber, 25km
			F	F										2 x 1000 Mbit SFP, LC Connector, Singlemode Fiber, 40km
			G	G										2 x 1000 Mbit SFP, LC Connector, Singlemode Fiber, 70km
			H	H										2 x 1000 Mbit SFP Ports (No Transceivers) Empty Cage
			J	J										2x 1000 Mbit RJ-45 Fixed Ports with 1588 Timing
			K	K										2x 1000 Mbit SFP, LC Connector, Multimode Fiber, 550m with 1588 Timing
			L	L										2x 1000 Mbit SFP, LC Connector, Singlemode Fiber, 2km with 1588 Timing
			M	M										2x 1000 Mbit SFP, LC Connector, Singlemode Fiber, 10km with 1588 Timing
			N	N										2x 1000 Mbit SFP, LC Connector, Singlemode Fiber, 25km with 1588 Timing
			P	P										2x 1000 Mbit SFP, LC Connector, Singlemode Fiber, 40km with 1588 Timing
			Q	Q										2x 1000 Mbit SFP, LC Connector, Singlemode Fiber, 70km with 1588 Timing
			R	R										2x 1000 Mbit SFP ports (no transceivers) empty cage with 1588 Timing
			X	X										None
100Mbps					A	A	A	A	A	A	A	A		4 x 10/100 Mbit - RJ45 Copper
					B	B	B	B	B	B	B	B		4 x 10/100 Mbit - RJ45 Copper with PoE*
					C	C	C	C	C	C	C	C		4 x 10/100 Mbit - RJ45 Copper with PoE+*
					D	D	D	D	D	D	D	D		2 x 10Mbit - ST
					E	E	E	E	E	E	E	E		2 x 100Mbit - ST Multimode Fiber
					F	F	F	F	F	F	F	F		2 x 100Mbit - SC Multimode Fiber
					G	G	G	G	G	G	G	G		4 x 100Mbit - LC Multimode Fiber
					H	H	H	H	H	H	H	H		4 x 100Mbit - MTRJ Multimode Fiber
					J	J	J	J	J	J	J	J		2 x 100Mbit - SC Singlemode Fiber 20km
					K	K	K	K	K	K	K	K		4 x 100Mbit - LC Singlemode Fiber 20km
					L	L	L	L	L	L	L	L		2 x 100Mbit - SC Singlemode Fiber 40km
					M	M	M	M	M	M	M	M		4 x 100Mbit - LC Singlemode Fiber 40km
					N	N	N	N	N	N	N	N		4 x 100Mbit SFP Ports (No Transceivers) Empty Cage
					P	P	P	P	P	P	P	P		4x 10/100 Mbit - RJ45 Copper with 1588 Timing
					Q	Q	Q	Q	Q	Q	Q	Q		2x 100Mbit - ST Multimode Fiber with 1588 Timing
					R	R	R	R	R	R	R	R		2x 100Mbit - SC Multimode Fiber with 1588 Timing
					S	S	S	S	S	S	S	S		4x 100Mbit - LC Multimode Fiber with 1588 Timing
					T	T	T	T	T	T	T	T		4x 100Mbit - MTRJ Multimode Fiber with 1588 Timing
					U	U	U	U	U	U	U	U		4x 100Mbit - LC Singlemode Fiber 20km with 1588 Timing
					W	W	W	W	W	W	W	W		2x 100Mbit - ST Singlemode Fiber 20km with 1588 Timing
					Y	Y	Y	Y	Y	Y	Y	Y		2x 100Mbit - SC Singlemode Fiber 20km with 1588 Timing
					Z	Z	Z	Z	Z	Z	Z	Z		4x 100Mbit - LC Singlemode Fiber 40km with 1588 Timing
					X	X	X	X	X	X	X	X		None
Coating													X	None
													H	Harsh Chemical Environment Conformal Coating

			GigE				100Mbps					
			1	2	3	4	5	6	7	8		
ML3100	*	**	*	*	*	*	*	*	*	*	*	**ML3100 Chassis with Integrated Power Supplies**
Mounting	F											Front Mounted Ports
	B											Rear Mounted Ports
Power Supply		HX										Single Integrated 90 to 250V AC/DC Power Supply
		HH										Dual Integrated 90 to 250V AC/DC Power Supplies
		LX										Single Integrated 22 to 60 VDC Power Supply
		LL										Dual Integrated 22 to 60 VDC Power Supplies
		P1										Single Integrated 22 to 60 VDC Power Supply with PoE Support
		P2										Dual Integrated 22 to 60 VDC Power Supply with PoE Support
		HL										Combination of a 90 to 250V AC/DC and a 22 to 60 VDC Power Supply
Gigabit			A	A	A	A						2 x 1000 RJ45 or SFP Combo Ports, Ports are Auto-Detect, No SFT Transceivers, with 1588 Timing
			B	B	B	B						2 x 1000 RJ45 or SFP Combo Ports, Populated with 2 x SFP Multimode Fiber, 550m , with 1588 Timing
			C	C	C	C						2 x 1000 RJ45 or SFP Combo Ports, Populated with 2 x SFP Singlemode Fiber, 2km, with 1588 Timing
			D	D	D	D						2 x 1000 RJ45 or SFP Combo Ports, Populated with 2 x SFP Singlemode Fiber, 10km, with 1588 Timing
			E	E	E	E						2 x 1000 RJ45 or SFP Combo Ports, Populated with 2 x SFP Singlemode Fiber, 25km, with 1588 Timing
			F	F	F	F						2 x 1000 RJ45 or SFP Combo Ports, Populated with 2 x SFP Singlemode Fiber, 40km, with 1588 Timing
			G	G	G	G						2 x 1000 RJ45 or SFP Combo Ports, Populated with 2 x SFP Singlemode Fiber, 70km, with 1588 Timing
			X	X	X	X						None
100Mbps							A	A	A	A		4 x 10/100Mbit - RJ45 Copper
							C	C	C	C		4 x 10/100Mbit - RJ45 Copper with PoE+*
							D	D	D	D		2 x 10Mbit - ST
							E	E	E	E		2 x 100Mbit - ST Multimode Fiber
							F	F	F	F		2 x 100Mbit - SC Multimode Fiber
							G	G	G	G		4 x 100Mbit - LC Multimode Fiber
							H	H	H	H		4 x 100Mbit - MTRJ Multimode Fiber
							J	J	J	J		2 x 100Mbit - SC Singlemode Fiber 20km
							K	K	K	K		4 x 100Mbit - LC Singlemode Fiber 20km
							L	L	L	L		2 x 100Mbit - SC Singlemode Fiber 40km
							M	M	M	M		4 x 100Mbit - LC Singlemode Fiber 40km
							N	N	N	N		4 x 100Mbit SFP Ports (No Transceivers) Empty Cage
							P	P	P	P		4 x 10/100Mbit - RJ45 Copper with 1588 Timing
							Q	Q	Q	Q		2 x 100Mbit - ST Multimode Fiber with 1588 Timing
							R	R	R	R		2 x 100Mbit - SC Multimode Fiber with 1588 Timing
							S	S	S	S		4 x 100Mbit - LC Multimode Fiber with 1588 Timing
							T	T	T	T		4 x 100Mbit - MTRJ Multimode Fiber with 1588 Timing
							U	U	U	U		4 x 100Mbit - LC Singlemode Fiber 20km with 1588 Timing
							W	W	W	W		2 x 100Mbit - ST Singlemode Fiber 20km with 1588 Timing
							Y	Y	Y	Y		2 x 100Mbit - SC Singlemode Fiber 20km with 1588 Timing
							Z	Z	Z	Z		4 x 100Mbit - LC Singlemode Fiber 40km with 1588 Timing
							X	X	X	X		None
Environment											X	None
											H	Harsh Chemical Environment Conformal Coating

* *The power source of the ML3000 must be in the range of 45-57 VDC for PoE and 52-56 VDC for PoE+. The power source of the ML3100 must be in the range of 52-56 VDC for PoE+. PoE and PoE+ modules are only supported on units ordered with P1 or P2 power supply options.*

Optional field replaceable power supplies are available with models ML3001 and ML3101. Please see online store for the latest module availability.

ML810



Ordering

ML810 - ** - ** - ** - ** - ** - ** - **	Base Unit
Power Supply 250S	ML810 250VDC Chassis
125S	ML810 125VDC Chassis
48VS	ML810 48VDC Chassis
48PS	ML810 48VDC Chassis with PoE enabled
24VS	ML810 24VDC Chassis
12VS	ML810 12VDC Chassis
125D	ML810 125VDC Chassis - Dual Input PSU
48VD	ML810 48VDC Chassis - Dual Input PSU
48PD	ML810 48VDC Chassis with PoE enabled - Dual Input PSU
24VD	ML810 24VDC Chassis - Dual Input PSU
12VD	ML810 12VDC Chassis - Dual Input PSU
HIAC	ML810 100 - 240 VAC
Mount P	Panel Mount Kit
D	DIN Mount Kit
SlotA C1	4x 10/100 RJ45
C2	4x 10/100 RJ45 PoE-enabled ports (only with ML810-48PD models)
SlotB H1	2x 1000Mb LC mm Fiber, SFP connector type
H2	2x 1000Mb LC mm Fiber 2km, SFP connector type
H3	2x 1000Mb LC sm Fiber 10km, SFP connector type
H4	2x 1000Mb LC sm Fiber 25km, SFP connector type
H5	2x 1000Mb LC sm Fiber 40km, SFP connector type
H6	2x 1000Mb LC sm Fiber 70km, SFP connector type
H7	2x 10/100/1000TX RJ45, fixed copper
XX	None
SlotC C1	4x 10/100 RJ45
C2	4x 10/100 RJ45 PoE-enabled ports (only with ML810-48PD models)
C3	2x 10/100 RJ45 + 2x 100Mbit MTRJ mm Fiber
C4	2x 10/100 RJ45 + 2x 100Mbit LC mm Fiber
C5	2x 10/100 RJ45 + 2x 100Mbit LC sm Fiber 20km
C6	2x 10/100 RJ45 + 2x 100Mbit SC mm Fiber
C7	2x 10/100 RJ45 + 2x 100Mbit SC sm 20km Fiber
C8	2x 10/100 RJ45 + 2x 100Mbit ST mm Fiber
CB	3x 10/100 RJ45 + 1x 100Mbit MTRJ mm Fiber
CD	3x 10/100RJ45 + 1x 100Mbit LC mm Fiber
CF	3x 10/100RJ45 + 1x 100Mbit LC sm 20km Fiber
CH	3x 10/100RJ45 + 1x 100Mbit LC sm 40km Fiber
CI	2x 10/100 RJ45 + 2x 100Mbit LC sm Fiber 40km
CK	2x 10/100 RJ45 + 2x 100Mbit SC sm Fiber 40km
E1	4x 100Mbit ST mm Fiber
E2	4x 100Mbit SC mm Fiber
E3	4x 100Mbit MTRJ mm Fiber
E4	4x 100Mbit LC mm Fiber
E5	4x 100Mbit SC sm 20km Fiber
E6	4x 100Mbit LC sm 20km Fiber
E7	4x 100Mbit SC sm 40km Fiber
E8	4x 100Mbit LC sm 40km Fiber
EA	1x 100Mbit MTRJ mm Fiber
EB	1x 100Mbit LC mm Fiber
EC	1x 100Mbit LC sm 20km Fiber
ED	1x 100Mbit LC sm 40km Fiber
EH	3x 100Mbit LC mm + 1x 100Mbit sm 20km Fiber
EJ	2x 100Mbit LC mm + 2x 100Mbit sm 20km Fiber
EK	2x 10/100 RJ45 + 1x 100Mbit LC mm + 1x 100Mbit sm 20km Fiber
EL	2x 10FL + 2x 100FX ST (2km)
EM	4x 10FL
X	None
Coating X	none
H	Harsh Chemical Environmental Option

Additional modules and configurations available. Please see the Online Store for the latest module availability.

ML600

Supports up to 6 - 10/100 Mbit Copper RJ45 Ports

Supports up to 2 - 100 Mbit ST, or SC Fiber Ports

6 - 10/100 Mbit Copper RJ45 Ports

4 - 10/100 Mbit Copper RJ45 Ports

2 - 100 Mbit ST, or SC Fiber Ports

Additional modules and configurations available. Please see the Online Store for the latest module availability.

Ordering

ML600	-	**	-	**	-	**	Base Unit
Power Supply		AC					External 100 - 240 VAC Adaptor
		48					30 - 60 VDC Power Supply
		24					10 - 36 VDC Power Supply
Modules				XX			None
				B1			6 x 10/100 Mbit - RJ45 Copper
				B2			2 x 100 Mbit - ST mm Fiber + 4 x 10/100 Mbit - RJ45 Copper
				B3			2 x 100 Mbit - SC mm Fiber + 4 x 10/100 Mbit - RJ45 Copper
				B4			2 x 100 Mbit - SC sm Fiber + 4 x 10/100 Mbit - RJ45 Copper
Conformal Coating Option						X	Standard Environment
						H	Harsh Chemical Environment Conformal Coating
						Z	ROHS Compliant
						Y	ROHS Compliant with Harsh Chemical Environment Conformal Coating

Accessories for MultiLink Switches

- Industrial Power System Communications Learning CD — TRCD-ICOM-C-S-1
- MultiNet Serial to Ethernet Converter — MultiNet-FE
- EnerVista Integrator — EVI-1000

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