

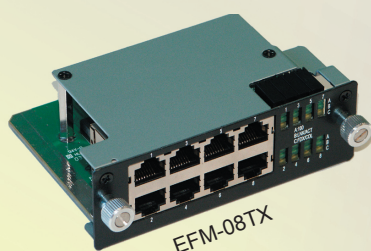


# ALLOY SWITCH

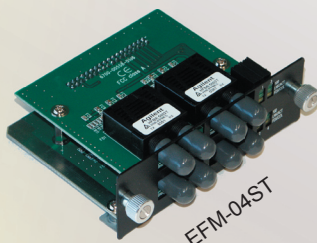
## EF-24M02G Managed Modular Fibre Switch

The EtherGuard series offers a range of switches in both fixed port configurations and modular configurations. All are based on latest generation highly integrated ASIC technology, to achieve the maximum level of performance for your 10/100/1000Mbps network.

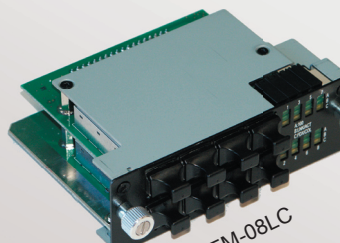
The EF-24M02G is a high performance web-based managed SNMP layer 2 Ethernet switch that provides 24 ports of 10/100Mbps Ethernet in 3 modular slots and 2 additional Gigabit expansion slots for server or backbone uplinks. These modular slots can be used to add copper or fibre ethernet modules to suit your specific networking needs. The Gigabit uplink slots support standards based GBIC interfaces for Gigabit fibre in SX/LX/LH or Gigabit copper with a copper GBIC module.



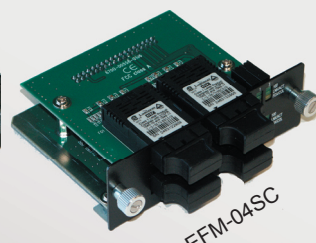
EFM-08TX



EFM-04ST



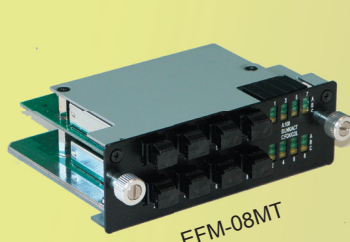
EFM-08LC



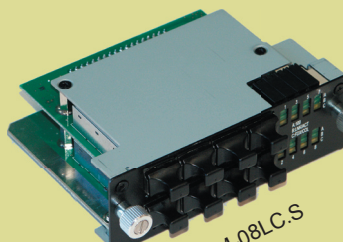
EFM-04SC

## KEY FEATURES

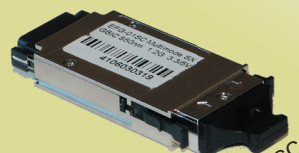
- ✓ Non-blocking, full-line speed, store-and-forward Layer 2 switch
- ✓ 3MB packet buffer and 1MB control buffer
- ✓ Up to 14K MAC entries
- ✓ Support for Flow Control for both half or full-duplex operation
- ✓ Supports Head-of-Line blocking prevention
- ✓ Web/SNMP managed function with user-friendly interface
- ✓ RMON group 1,2,3,9
- ✓ Supports broadcast storm filtering
- ✓ Support for port-based VLAN and 802.1Q tagged-VLAN with both IVL and SVL
- ✓ Supports IP Multicasting, IGMP snooping
- ✓ Supports 2 levels of priority queuing
- ✓ Support for Port-Trunking with flexible load distribution control and fail-over functions
- ✓ Support 802.1X Security protocol
- ✓ Supports ingress port security mode
- ✓ Supports port-based Rate Control in 100K increments
- ✓ Comprehensive LED suite: status display for each port; link, activity and speed status; fan operation status: normal or fail
- ✓ 3 x 8 port fibre/copper module slots and 2 GBIC ports
- ✓ Ultra-high speed switching fabric
- ✓ Programmable aging time



EFM-08MT



EFM-08LC.S



EFG-01SC



EF-01T

See reverse for port module specifications

On-line brochures available for related products: <http://www.alloy.com.au/Resource.asp>

\*Unmanaged Switches \*Converters \*Network Adapters \*Fibre Optic Networking and much more

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EF-24M02g PRODUCT INFORMATION		
GENERAL	Standards	1000Base-T IEEE 802.3z 1000Base-SX IEEE 802.3z 1000Base-LX IEEE 802.3z 100Base-TX IEEE 802.3u 100Base-FX IEEE 802.3x 10Base-T IEEE 802.3 IEEE 802.3x Flow Control (Full duplex ports) IEEE 802.1D Spanning Tree IEEE 802.1Q VLAN IEEE 802.1v Port-based VLAN IEEE 802.1p Class of Service IEEE 802.3ad Port Trunking IEEE 802.1x Port-based network access control
	Network Protocol	CSMA/CD
	Topology	Star
	Console Port	Yes
PERFORMANCE	Transmission Method	Store-and-forward
	Duplex Mode	Full and Half, all ports
	Bus	Embedded 'On chip' bus
	Port Latency	Fixed 10/100Mbps: 4.4ms average Installed Port Module: 3.4ms average
	Filtering Forwarding Rate	Gigabit Ethernet: 1,488,100 pps Fast Ethernet: 148,000 pps Ethernet: 4,880 pps
	Buffer Memory	Embedded 'On chip' Buffer: Control: 1MB; Packet Buffers: 3MB
	MAC Address Tables	MAC Address: 6K, self-learning, auto-aging VLAN: 4K, self-learning, auto-aging Pro VLAN: 2K, self-learning, auto-aging Multicast: 2K, self-learning, auto-aging
	Flow Control	Full duplex: IEEE 802.3x Half duplex: Back Pressure, collision & carrier
	LED Suite	System: 1x Power, 2x GBIC Link
	Interface	HTTP, Telnet, Console Port
MANAGEMENT	SNMP	YES
	RMON	YES – Groups 1,2,3,9
	VLAN	802.1Q Tagged VLAN, 802.1v Port-based
	Port Trunking	802.3ad: Fail-over on multiple ports/multiple groups (Static or LACP); Flexible load distribution control. Up to 4 ports per group.
	Multicast	IP Multicasting for IGMP snooping function
	Rate Control	Define port bandwidth allocation, 100K blocks
	Priority Queuing	<ul style="list-style-type: none"> <li>• "All high before low" scheduling</li> <li>• "Weighted Round Robin" scheduling</li> <li>• FCFS scheduling</li> </ul>
	Class of Service	802.1P CoS with 2-level priority queuing
	Spanning Tree	IEEE 802.1D Spanning Tree Protocol
	Security	<ul style="list-style-type: none"> <li>• 802.1X Security Protocol for port-based security with compatible OS's or RADIUS servers</li> <li>• Ingress port security mode</li> </ul>
	Port Mirroring	Supports Port Mirroring, Sniffing
	Counters	29 Counter per port to support MIB II-RFC1213 (RMON), RFC1493 (Bridge MIB) and RFC1643 (Ether-Like)
	Operating Humidity	10%-90% (non-condensing)
	Dimensions	440(W) x 285(D) x 44(H) mm
ENVIRONMENT	Weight	4.3 Kg
	Compliance	FCC Part 15 Class A, CE Class A, C-Tick

PORT MODULE INFORMATION						
	Module	No. of Ports	Speed	Connector	Medium	Max Distance
10/100Mbps Modules	EFM-08TX	8	10/100Base-TX	RJ-45	Copper	100M
	EFM-08MT	8	100Base-FX	MT-RJ	MM Fibre	2 KM
	EFM-08MT.S	8	100Base-FX	MT-RJ	SM Fibre	20 KM
	EFM-08LC	8	100Base-FX	LC	MM Fibre	2 KM
	EFM-08LC.S	8	100Base-FX	LC	SM Fibre	20 KM
	EFM-04ST	4	100Base-FX	ST	MM Fibre	2 KM
	EFM-04SC	4	100Base-FX	SC	MM Fibre	2 KM
	EFM-04SC.S	4	100Base-FX	SC	SM Fibre	20 KM
	Module	No. of Ports	Wavelength	Connector	Medium	Max Distance
GBIC Modules	EFG-01T	1	Speed: 1000Base-T	RJ-45	Copper	100 M
	EFG-01SC	1	850nm	SC	SM Fibre	2KM
	EFG-01SC.S10	1	1310nm	SC	SM Fibre	10 KM
	EFG-01SC.S30	1	1310nm	SC	SM Fibre	30 KM
	EFG-01SC.S50	1	1550nm	SC	SM Fibre	50 KM
	EFG-01SC.S70	1	1550nm	SC	SM Fibre	70 KM

