

# Gatecraft™ Ruggedized Ethernet Switches

## Catalog Numbers - GCL-E2525-E2528-E2525M-E2526M

### General Description

Gatecraft™ industrial-grade Ethernet switches enable you to expand your industrial networks fast and cost-effectively. The ruggedized design assures high reliability and stability in harsh environments.

They offer a 12-48VDC redundant power input design, and is secured with a double protection mechanism; Power Polarity Reverse Protect and an Overload Current Resettable Fuse. The former tolerates reverse power wiring. The latter secures the system from overload currents; when the power supply returns to normal, the switch will automatically get back to work. The switches are packaged in a compact metal housing with IP30 rating to protect against dusty industrial environments. Both DIN-rail and panel mount options are available.

Each port has 2 LED's which show the link status transmission speed and collision status. It also provides a relay output for an event alarm. In the event of a power failure, the built-in LED will activate the

alarm to notify administrators. Engineers can simply verify the the hardware status by checking the LED, making troubleshooting easy and quick.

For installations utilizing fiber optics, noise protection and longer distances can be supported with the GCL-E2525M/E2526M models. Use them as a robust bridge between enterprise fiber-optic backbones and industrial Ethernet-enabled devices, or for long-distance (up to 2km) transmission runs.

### Gatecraft Features

- ◆ Fast Ethernet Ports with Auto MDI/MDI-X crossover
- ◆ Multi-Mode FX Fiber ports (models GCL-E2525M/E2526M)
- ◆ 10/100Mbps Auto Negotiation, full/half duplex flow control
- ◆ Broadcast storm protection
- ◆ Compact Size with DIN-rail/Panel Mount & IP30 rated metal enclosure
- ◆ Supports redundant 12~48VDC power input & power-fail relay
- ◆ 4,000VDC Ethernet EDC protection
- ◆ 3,000VDC EFT (surge) protection on power line



**GCL-E2525**



**GCL-E2525M**



**GCL-E2528**



**GCL-E2526M**

Specifications	GCL-E2525	GCL-E2528	GCL-E2525M	GCL-E2526M
<b>Communications</b>				
Standard	IEEE 802.3, 802.3u, 802.3x			
LAN	10/100Base-TX		10/100Base-TX, 100Base-FX	
Transmission Distance	Up to 100 m		Up to 100 m (Ethernet) Up to 2 km (Multi-Mode Fiber)	
Transmission Speed	Up to 100 Mbps			
<b>Interface</b>				
Network Connectors	(5) RJ-45	(8) RJ-45	(4) RJ-45, (1) SC Fiber	(4) RJ-45, (2) SC Fiber
Power/Relay Connectors	6-pin removable screw terminal			
LED Indicators	P1, P2, P-Fail, 10/100TX: Link/Activity, Duplex/Collision			
<b>Power</b>				
Consumption	Max 3W	Max 5W	Max 5W	Max 6.41W
Input	(2) unregulated 12 ~ 48VDC			
Fault Output	(1) Relay output			
<b>Mechanical</b>				
Dimensions (W x H x D)	1.45 x 5.51 x 3.74 inches (37 x 140 x 95 mm)			
Enclosure	IP30, Metal shell with solid mounting kits			
Mounting	DIN-rail, Panel			
<b>Protection</b>				
ESD (Ethernet)	4,000VDC			
Surge (EFT for Power)	3,000VDC			
Reverse Polarity	Present			
Overload	0.9A @ 12VDC (resettable Fuse)			1.6A @ 12VDC (resettable Fuse)
<b>Environmental</b>				
Temperature	-10 ~ 60°C (14 ~ 140°F) Operating -40 ~ 85°C (-40 ~ 185°F) Storage			
Humidity	5 ~ 95% (non-condensing) Operating 0 ~ 95% (non-condensing) Storage			
MTBF	1,260,000 hrs	689,000 hrs	610,453 hrs	
<b>Certifications</b>				
Safety	UL 60950-1, CAN/CSA-C22.2 No. 60950			
EMC	FCC Part 15 CISPR22			
Shock/Freefall/Vibration	IEC60068-2-27, IEC60068-2-32, IEC60068-2-6			

<b>Ordering Information</b>	
<b>GCL-E2525</b>	5-port Industrial Unmanaged Ethernet Switch
<b>GCL-E2528</b>	8-port Industrial Unmanaged Ethernet Switch
<b>GCL-E2525M</b>	5-port Industrial Unmanaged Ethernet Switch with 1-port 100FX, Multit-mode
<b>GCL-E2526M</b>	6-port Industrial Unmanaged Ethernet Switch with 2-port 100FX, Multit-mode