

## CLR-PIC-FG82

8\*10/100M PoE to 2\*1000M SFP slots  
industrial ethernet PoE switch,  
unmanaged



### Overview

CLR-PIC-FG82 Unmanaged Ethernet switches support PoE (Power-over-Ethernet) on eight ports. The switches are classified as power source equipment (PSE), and when used in this way, CLR-PIC-FG82 switches enable centralization of the power supply and provide up to 15.4/25.4 watts of power per port. The switches can be used to power IEEE 802.3af/at compliant powered devices (PD), eliminating the need for additional wiring, and support IEEE 802.3/802.3u with 10/100M, full/half-duplex, MDI/MDI-X auto-sensing to provide an economical solution for your industrial Ethernet network. In addition, the built-in relay warning function alerts network engineers when power failures or port breaks occur.

CLR-PIC-FG82 industrial PoE ethernet switch can work in the harsh industrial electromagnetic environments for industrial Ethernet devices, over long distances via optical fiber and anti-electromagnetic interference with communications, suitable for different regions with various temperature levels.

CLR-PIC-FG82 provides a convenient, robust and reliable way for networking industrial control systems. It can satisfy customers requirements for long distance, high speed transmissions.

CLR-PIC-FG82 adopts industry standard design, IP40 protection under -40 to 80°C working temperature. Its power supply input is 46V ~ 50VDC

### Features

- Fully complies with IEEE802.3 10Base-T, IEEE802.3u, 100Base-TX, IEEE802.3ab
- 8 x RJ45 10/100M RJ45 PoE Ports and 2 x 1000Base-SX/LX SFP slots
- Complies with IEEE 802.3af/at , provide power for the IP cameras over Ethernet
- Provides up to 25W power to the PD devices per RJ45 ports.
- Auto negotiation function allows UTP ports to auto select 10/100M and Full Duplex or Half Duplex
- The UTP port supports MDI/MDI-X auto crossover.
- Forwarding method is store-and-forward
- Operating temperature range is -40°C to 80°C.
- Designed for industrial applications. IP40 protection
- Broadcast storm prevention.
- Plug-and-play, easy installation
- Works with Singlemode SM 8.3/125, 8.7/125, 9/125 or 10/125µm, Mutimode MM 50/125, 62.5/125µm fiber cables.
- Supports flow control.
- There are LEDs showing the status of the ports and power.

### Specifications

Standards	- IEEE802.3 10Base-T, IEEE802.3u 100Base-TX Fastethernet - IEEE 802.3z 1000Base-LX/SX - IEEE 802.3at, IEEE 802.3af PoE - IEEE 802.3x Flow Control and Back Pressure
Interface	- 8 * 100Base-T RJ45 connector - 2 * 1000Base-LX/SX SFP slots
Frame Size	- 1536bytes
Flow Control	- Full Duplex: IEEE802.3x - Half Duplex: back pressure.
Transmission Media	100Base-T - 4 pair Cat.5e or Cat6, EIA/TIA-568 100-ohm screened twisted-pair (STP), up to 100m
	1000Base-SX - 62.5/125µm multimode fiber optic cable, up to 224m - 50/125µm multimode fiber optic cable, up to 550m
	1000Base-LX - 8.3/125, 8.7/125, 9/125µm singlemode fiber optic cable 20Km
Connector Type	- UTP: RJ-45, 10/100Mbps; - Fiber: LC, 1000Mbps
LED Indicators	- Power - Port Link/Activity
Input Voltage	- 48VDC (46~50V) Redundant power input - Overload Current Protection - Supports dual power backup - Supports dual power alarm input - Connection: 6 pin terminal
Environment	- Operating Temperature: -40°C~80°C - Storage Temperature: -40°C~85°C - Operating Humidity: 5%~90%
Physical	Dimensions - 60.5 x 118 x 140mm
	Shell - IP40 , Aluminium Alloy
	Installation - DIN-Rail or wall mounting
	Weight - 650g
EMI	- FCC Part 15, CISPR (EN55022) class A



**Datasheet | 8\*POE + 2\*SFP Industrial PoE Switch**

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EMS	- EN61000-4-2 (ESD), Level 3 , EN61000-4-3 (RS), Level 3 , EN61000-4-4 (EFT), Level 3 , EN61000-4-5 (Surge), Level 3 , EN61000-4-6 (CS), Level 3 , EN61000-4-8, Level 3
Shock	- IEC 60068-2-27 PASS
Free Fall	- IEC 60068-2-32 PASS
Vibration	- IEC 60068-2-6 PASS

**CLR Networks**

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