

XCELL NetLink Mini Industrial 2-port 10/100/1000Base-T + 2-port 1000Base-X SFP (1+1) Redundant Fiber PoE Media Converter

(Part No: XL-IMC-2G2FP)

The XCELL NetLink XL-IMC-2G2FP is a compact, unmanaged industrial PoE media converter featuring 2 × 10/100/1000Base-T PoE ports and 2 × 1000Base-X SFP fiber ports with 1+1 fiber redundancy. It supports IEEE 802.3af/at PoE+ with up to 30W per port, providing reliable power and data transmission over Ethernet.

Designed for harsh industrial environments, it features 44-57VDC redundant power input, polarity reverse and over-voltage protection, PoE watchdog, selectable fiber redundancy, fanless IP40 DIN-rail housing, and a wide operating temperature range of -40°C to +80°C. It is suitable for industrial networking, IP surveillance, transportation, oil & gas, automation, and other demanding applications.



Features

2*10/100/1000Base-T RJ45 PoE ports, 2*100/1000Base-X SFP ports.

DC 44~57V input, redundant power supply with polarity reverse/over-voltage protection

Complies with IEEE802.3af PoE and IEEE802.3at PoE+ standard

Powerful DIP switch function: 1. Fiber redundant; 2. Fiber ports Protection 100/1000M selection; 3. 250m long distance; 4. PoE watchdog;

Support 4KV surge protection and ESD: Air-15kV, Contact-8kV Protection

P40 fan-less and Din-rail hardware design with compact size (30*85*85mm)

Operation temperature: -40 °C ~+80°C

Specifications		
Brand		Xcell Netlink
Product Name		XCELL NetLink Mini Industrial 2-port 10/100/1000Base-T + 2-port 1000Base-X SFP (1+1) Redundant Fiber PoE Media Converter
Standards		IEEE 802.3 10Base-T Ethernet IEEE 802.3u Fast Ethernet IEEE 802.3ab Gigabit Ethernet IEEE 802.3x Full-Duplex Flow Control IEEE 802.3az Energy Efficient Ethernet IEEE 802.3af Power-Over-Ethernet IEEE 802.3at Power Over Ethernet plus PSE
Ethernet		2*10/100/1000Base-T PoE 2*100/1000Base-X SFP
Interface	Fiber ports	Copper RJ45 ports
	2	2
Dip Switch		1. Fiber redundant 2. Fiber port 100/1000M selection 3. 250m long distance mode(1-2 ports) 4. PoE watchdog
LED Indicators	P (Power indicator)	Off: the device is power off or failed
	Green	On: the device power on is normal
	S (PoE usage indicator) Red	Blinking: rated 50% < total PoE usage < rated 90%
		On: total PoE usage ≥ rated 90%
	1-2(Copper ports)	Green indicators
		Yellow indicators
		Off: ports link down
		Off: PoE not working
	3-4 (Fiber ports) Green	On: ports link up
		Blinking: data on TX/RX
		On: PoE working
		Off: ports link down
		On: ports link up
		Blinking: data on TX/RX

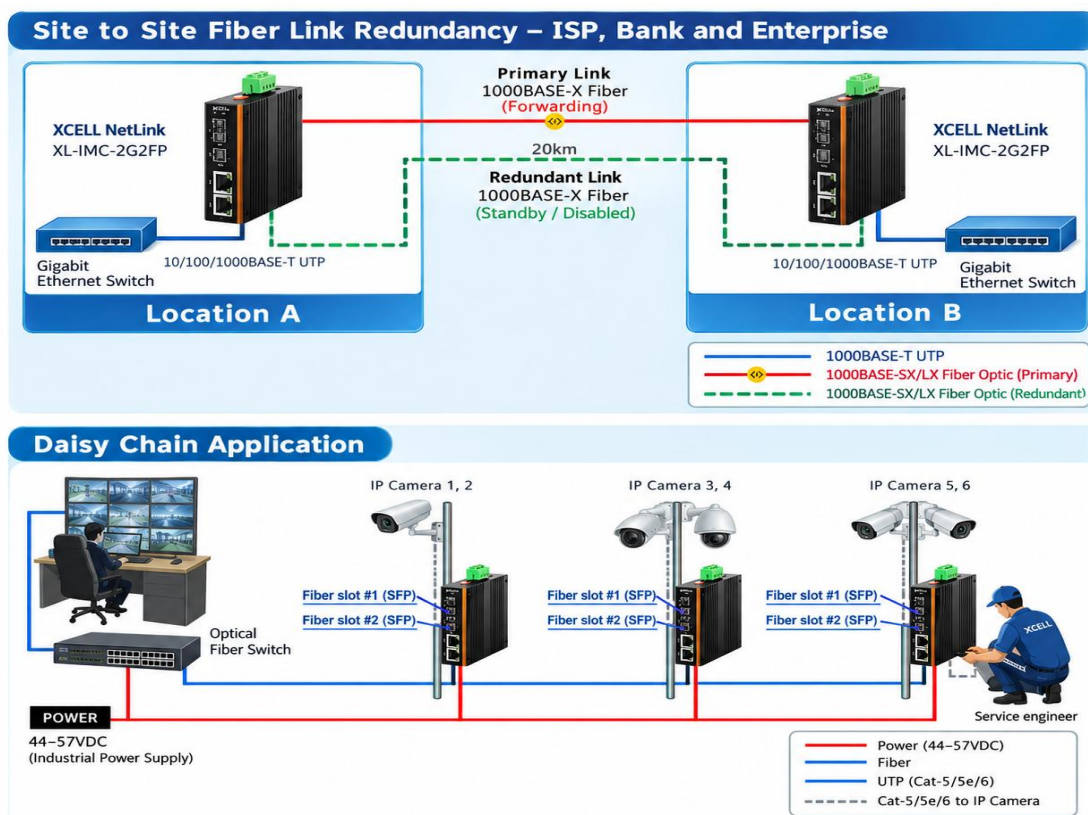
Power parameters	
Input voltage	44-57VDC, redundant power input
Input current	1.5A Max
Total power consumption	Full loading without PoE $\leq 3W$ PoE power budget $\leq 60W$
Reverse polarity protection	Support
Over-voltage protection	Support

Switching features	
Switching capacity	8G
Packet forwarding rate	11.9 Mpps
MAC address table	8K
VLAN	4K
Over-voltage protection	Support
Buffer	1M
Forwarding delay	<5us
Jumbo Frame	Support 10Kbytes
MDX/MIDX	Support
Watchdog	Support

Network Topology	
Star topology	Support
Bus topology	Support
Tree Topology	Support

Operating environment	
Operating temperature	-40°C~+80°C
Storage/transportation temperature	-40°C~+85°C
Relative humidity	5%-95% (non-condensing)
	Surge protection of power: IEC 61000-4-5 Level 3 (4KV/2KV) (8/20us)
industrial Standard	Surge protection of Ethernet ports: IEC 61000-4-5 Level 3 (4KV/2KV) (10/700us)
	DIP: IEC 61000-4-11 Level 3 (10V)
	ESD: IEC 61000-4-2 Level 4 (8K/15K)
	Shock : IEC 60068-2-27
	Free fall : IEC 60068-2-32
	Vibration : IEC 60068-2-6
Certification	CCC/CE/FCC/RoHS

Applications





Consult **Xcell**® for engineering specifications