



Quick Installation Guide

Introduction

IGPCS-E131GP is a PCI-Express unmanaged Gigabit PoE Ethernet switch card with P.S.E. function, IGPCS-E131GP supports 3x10/100/1000Base-T(X) IEEE 802.3at P.S.E. (Power Sourcing Equipment) and 1x100/1000Base-X SFP ports. P.S.E. is a device (switch or hub for instance) that will provide power in a PoE port. IGPCS-E131GP could be installed on any IPC motherboard with PCIe socket to make the IPC/embedded system able to communication with other Ethernet devices. Therefore, IGPCS-E131GP is the best solution to IPC/embedded system to feature Ethernet network.

Features

- > Provide 3x10/100/1000Base-T(X) PoE (P.S.E.) ports
- Supports IEEE 802.3at compliant PoE and total power budget is 65Watts with maximum 30Watts per port
- > PoE power sourced from 12VDC input from ATX power
- > Each LAN port supports both PoE and Non-PoE connections (Auto Detect & Classification)
- > Supports PCIe x1 bus and compatible x4, x8 and x16 PCIe slots
- > Compliant with PCIe Rev.1.1 Interface
- > Supports 100Base-FX or 1000Base-X SFP port by DIP-switch
- > Supports 10K Bytes Jumbo Frame
- > Support auto-negotiation and auto-MDI/MDI-X
- > Support store and forward transmission
- > Support flow control

Accessory











▶ Packing list

l	Model name	Model Description	Accessory
	IGPCS-E131GP	Industrial 4-port PCIe unmanaged Gigabit PoE Ethernet switch card with 3x10/100/1000Base-T(X) P.S.E. and 1x100/1000Base-X, SFP socket	①X1, ②X3, ③X1, ④X1



IGPCS-E131GP

Specifications

ORing Switch Model	IGPCS-E131GP		
Physical Ports			
10/100/1000Base-T(X) Ports in	3		
RJ45 With P.S.E.	1		
100/1000Base-X SFP port	On board S1 dip-switch for SFP speed setting (ON: 100Base-FX, OFF: 1000Base-X)		
Technology			
Ethernet Standards	IEEE 802.3 for 10Base-T, IEEE 802.3 uf or 10Base-TX and 100Base-FX IEEE 802.3ab for 1000Base-T IEEE 802.3ab for 1000Base-X IEEE 802.3ab for 1000Base-X IEEE 802.3cb for 1000Base-X IEEE 802.3cb for 1000Base-X IEEE 802.3cb for 1000Base-X IEEE 802.3cb for 100cb for 10cb control IEEE 802.3cb for 10cb control		
MAC Table	8K MAC addresses		
Processing	Store-and-Forward		
LED Indicators			
Power Indicator	Green: LED x 1		
PoE power indicator	Green: PoE power LED x 1		
100/1000Base-X SFP port indicator	Green for port Link/Act.		
10/100/1000Base-T(X) RJ45 Port Indicator and PoE Indicator	Green for port Link/Act. Green for PoE power injected		
Power			
Input Power	PCIe bus-powered(for switch card system)		
PoE Input Power	12VDC of ATX power		
Power consumption(Typ.)	4.2 Watts (power device not included)		
PoE Output Power	IEEE802.3at/af compliant, up to 30 Watts per port, totally 65 Watts maximum		
Overload current protection	Present		
Physical Characteristic			
Dimension (W x D x H)	21.3 (W) x 178 (D) x 121 (H)mm (0.83 x 7 x 4.76 inch)		
Weight (g)	160g		
Environmental			
Storage Temperature	-40 to 85°C (-40 to 185°F)		
Operating Temperature	-10 to 60°C (14 to 140°F)		
Operating Humidity	5% to 95% Non-condensing		
Regulatory Approvals			
EMI	FCC Part 15, CISPR (EN55022) class A		
EMS	EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11		
Shock	IEC60068-2-27		
Free Fall	IEC60068-2-32		
Vibration	IEC60068-2-6		
Operating System Suppor	ts		
Microsoft System	DOS / Win98 / WinMe / WinXP / Win2000 / WinServer2003 / Vista / WinServer 2008 / Win7 / Win8		
Unix (Linux)	Linux for Kernel 3.x / 2.6.x / 2.4.x, FreeBSD for 7.x / 8.0, SCO OpenServer for 6 / UnixWare 7.1.x		
Novell	Novell client dor DOS (ODI driver) / Novell server driver (Support OS 5.x and 6.x)		
Others	MacOS 10.4 / 10.5 / 10.6 / 10.7		

→ PoE Pin Definition

10/100Base-T(X) P.S.E. RJ-45 port

RJ45 Pin Definition				
Pin No.	Description			
# 1	TD+ with PoE Power input +			
# 2	TD- with PoE Power input +			
#3	RD+ with PoE Power input -			
# 6	RD- with PoE Power input -			

1000Base-T P.S.E. RJ-45 port

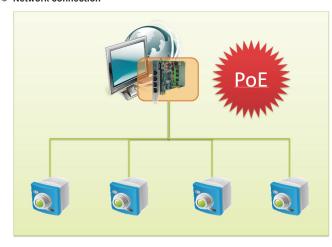
RJ45 Pin Definition		
Pin No.	Description	
# 1	BI_DA+ with PoE Power input +	
# 2	BI_DA- with PoE Power input +	
#3	BI_DB+ with PoE Power input -	
# 4	BI_DC+	
# 5	BI_DC-	
# 6	BI_DB- with PoE Power input -	
#7	BI_DD+	
#8	BI_DD-	

Industrial Unmanaged Gigabit PoE Switch Card

> Practical Operation

IGPCS-E131GP can be used in connecting several PoE P.D. Ethernet devices like IP-Camera or other Ethernet devices.

Network connection



₽ Front Panel

