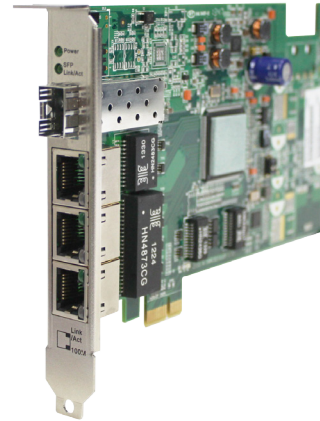# IGCS-E131GP

IGCS-E131GP

> **Industrial 4-port PCIe unmanaged Gigabit Ethernet switch card with 3x10/100/1000Base-T(X) and 1x100/1000Base-X, SFP socket**

Features

- Provide 3x10/100/1000Base-T(X) ports
- 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
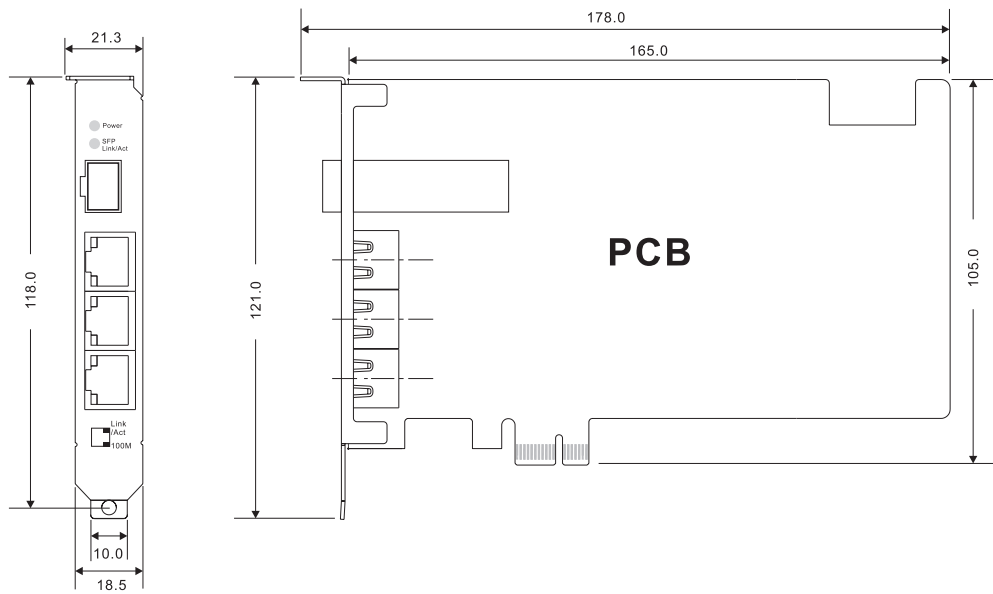- Support flow control

Introduction

IGCS-E131GP is a PCI-Express unmanaged Gigabit Ethernet switch card. IGCS-E131GP is a high performance LAN controller which provides 3x10/100/1000Base-T(X) auto MDI/MDIX Ethernet ports and 1x100/1000Base-X SFP ports. IGCS-E131GP could be installed on any IPC motherboard with PCIe socket to make the IPC/embedded system able to communicate with other Ethernet devices. The IGCS-E131GP's full bandwidth capability boasts a robust 1000Mbps capability through the PCI Express bus architecture. IGCS-E131GP no need to purchase a new switch or broadband router because the auto-negotiation feature works with your existing switch, broadband router, or hub to provide the highest network speed available. The automatic full duplex capability further increases bandwidth and eliminates packet collisions by allowing data to flow in both directions at the same time. Therefore, IGCS-E131GP is the best solution to IPC/embedded system to feature Ethernet network.

Practical Operation

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

IGCS-E131GP

PLC   IP Camera   IP Phone   NAS

Industrial Ethernet Switch
Industrial Media Converter
Industrial Device Server
Industrial Wireless Access Point
Industrial Cellular VPN Router
Industrial M2M Gateway
Accessories
Network Management Software

Dimensions

PCB

(Unit=mm)

Specifications

ORing Switch Model	IGCS-E131GP
Physical Ports	
10/100/1000Base-T(X) Ports in RJ45	3
100/1000Base-X SFP port	1 S1 dip-switch for SFP speed setting (ON : 100Base-FX SFP, OFF : 1000Base-X SFP)
Technology	
Ethernet Standards	IEEE 802.3 for 10Base-T, IEEE 802.3u for 100Base-TX and 100Base-FX IEEE 802.3ab for 1000Base-T IEEE 802.z for 1000Base-X IEEE 802.3x for Flow control
MAC Table	8K MAC addresses
Processing	Store-and-Forward
LED Indicators	
Power indicator	Green : Power LED x 1
100/1000Base-X SFP port indicator	Green for port Link/Act.
10/100/1000Base-T(X) RJ45 port indicator	Green for port Link/Act.
Power	
Input Power	PCIe bus-powered(for switch card system)
PoE Input Power	12VDC of ATX power
Power Consumption (Typ.)	4.2 Watts
Overload current protection	Present
Physical Characteristics	
Dimensions (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)	120 g

Environmental	
Operating Temperature	–40 to 85℃ (–40 to 185℉)
Operating Temperature	–10 to 60℃ (14 to 140℉)
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 Supports	
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 for DOS (ODI driver) / Novell server driver (Support OS 5.x and 6.x)
Others	MacOS 10.4 / 10.5 / 10.6 / 10.7
Warranty	5 years

Ordering Information

IGCS-E1 A B CC

Code Definition	10/100B/1000ase-T(X) Port Number	Additional Port Number	Additional Port Type
Option	**- 3:** 3 ports	**- 1:** 1 port	**- GP:** 100/1000Base-X SFP port

Available Model	Model Name	Description
	IGCS-E131GP	Industrial 4-port PCIe unmanaged Gigabit Ethernet switch card with 3x10/100/1000Base-T(X) and 1x100/1000Base-X, SFP socket

Packing List
- IGCS-E131GP
- Quick Installation Guide
- ORing Tool CD

Industrial Ethernet Switch

Industrial Media Converter

Industrial Device Server

Industrial Wireless Access Point

Industrial Cellular VPN Router

Industrial M2M Gateway

Accessories

Network Management Software