

Quick Installation Guide

IGCS-E140

Industrial Unmanaged Gigabit Switch Card

Introduction

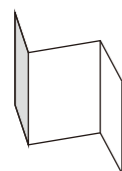
IGCS-E140 is a PCI-Express unmanaged Gigabit Ethernet switch card. The Ethernet switch card is a high performance LAN controller. **IGCS-E140** provided 4x10/100/1000Base-T(X) auto MDI/MDIX Ethernet ports. **IGCS-E140** could be installed on any IPC motherboard with PCIe socket to make the IPC/embedded system able to communication with other Ethernet devices. The **IGCS-E140's** full bandwidth capability boasts a robust 1000Mbps capability through the PCI Express bus architecture. **IGCS-E140** 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-E140** is the best solution to IPC/embedded system to feature Ethernet network.

Features

- > Provide 4x10/100/1000Base-T(X) Ethernet copper ports
- > Supports PCIe x1 bus and compatible x4, x8 and x16 PCIe slot
- > Compliant with PCIe Rev.1.1 Interface
- > Supports 10K Bytes Jumbo Frame
- > Support auto-negotiation and auto-MDI/MDI-X
- > Support store and forward transmission
- > Support flow control

Accessory

- ① QIG ② Dust Cover (RJ-45) ③ CD



Packing list

Model name	Model Description	Accessory
IGCS-E140	Industrial 4-port PCIe unmanaged Gigabit Ethernet switch card with 4x10/100/1000Base-T(X)	<ul style="list-style-type: none"> ① X 1, ② X 4, ③ X 1

Specifications

ORing Switch Model	IGCS-E140
Physical Ports	
10/100/1000Base-T(X) Ports in RJ45	4
Technology	
Ethernet Standards	IEEE 802.3 for 10Base-T, IEEE 802.3u for 100Base-TX IEEE 802.3ab for 1000Base-T IEEE 802.3x for Flow control
MAC Table	1K MAC addresses
Processing	Store-and-Forward
LED Indicators	
Power Indicator	Green: LED x 1
10/100/1000Base-T(X) RJ45 Port Indicator	Up Green LED for Link/Act indicator. Down Green LED for speed indicator: On for 100Mbps, Off for 10/100Mbps.
Power	
Input Power	PCIe bus-powered(for switch card system)
Power consumption(Typ.)	4.2 Watts
Overload current protection	Present
Physical Characteristic	
Dimension (W x D x H)	21(W)x146(D)x121(H)mm 0.827(W)x5.748(D)x4.764(H)inch
Weight (g)	105 g
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	
EMC	CE EMC (EN 55035, EN 55032), FCC Part 15 B
EMI	EN 55032, CISPR32, EN 61000-3-2, EN 61000-3-3, FCC Part 15 B class A
EMS	EN 55035 (IEC/EN 61000-4-2 ESD, IEC/EN 61000-4-3 RS, IEC/EN 61000-4-4 EFT, IEC/EN 61000-4-5 Surge, IEC/EN 61000-4-6 CS, IEC/EN 61000-4-8 PFMF, IEC/EN 61000-4-11 DIP)
Shock	IEC60068-2-27
Free Fall	IEC60068-2-31
Vibration	IEC60068-2-6
Safety	EN 62368-1 compliant
Operating System Supports	
Microsoft System	Win98SE / WinMe / WinXP / WinServer2003 / Vista / WinServer 2008 / WinServer 2012 / Win7 / Win8 / Win8.1 / Win10 / Win11
Unix (Linux)	Linux for Kernel 2.4.x, FreeBSD for 7.x / 8.0, SCO Unix for 5.06 / 5.07
Other	MacOS 10.7
MTBF	1,323,026 hrs.
Warranty	5 years

NOTE. Driver download link: <https://www.realtek.com/zh-tw/component/zoo/category/network-interface-controllers-10-100-1000m-gigabit-ethernet-pci-express-software>

Contact for maintenance and repair service:

ORing

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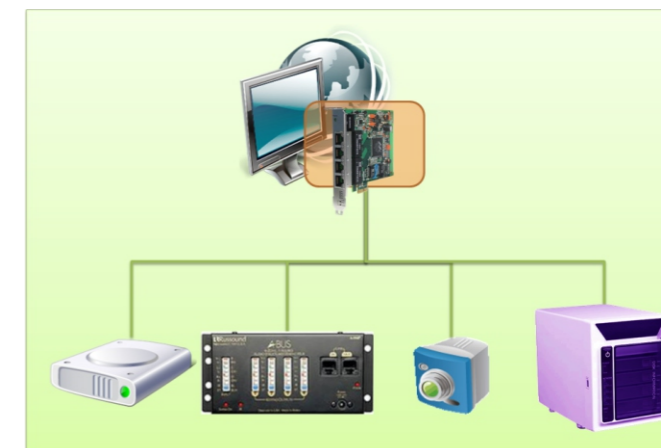
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Practical Operation

IGCS-E140 can be used in connecting several Ethernet devices like IP-Camera or other Ethernet devices.

Network connection



Front Panel

