



Liantec Systems Corporation

13F, No. 539, Lian-Cheng Road, Jhong-He District, 235

Taipei Hsien, Taiwan, ROC.

TEL: +886-2-82212877 Website: <http://www.liantec.com>

FAX: +886-2-82212879 E-mail: info@liantec.com

1uPCIe-1000

Ultra Low Profile 1U Slim PCIe Intel Gbit Ethernet Card

Datasheet

2013.02.08



- » Meets Ultra Low Profile 1U Slim-type Systems with 31.5 mm of Card Height
 - » Support by Motherboards with 1-lane PCI Express Expansion Slot
 - » Onboard Intel 82574L Gigabit Ethernet Controller
 - » Support Wake-on-LAN (WoL) without Cable



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Overview

Liantec 1uPCIe-1000 industrial ultra low profile 1U slim PCIe Intel Gigabit Ethernet card is based on the form factor of ultra low profile 1U slim add-on card, features onboard Intel PCIe 82574L Gigabit Ethernet controller, supports auto-switching 10/100/1000BASE Ethernet networking connection and Wake-on-LAN (WoL) functions, meets 1U or 1.75 inches of system height without additional riser card.

The 1uPCIe 1U slim PCI Express add-on card series are designed for the ultra low profile systems with 1U or 1.75 inches of height, and can be installed directly without additional riser cards. Based on the standard PCI Express bus interface, the 1uPCIe series can be supported by the popular motherboards with x1 PCI Express expansion slot. That is, the 1uPCIe series 1U slim PCI Express add-on cards can be used on normal motherboards with PCIe slots, bringing the benefits of expansibility, space-saving and cost-saving for system integrators to build more interfaces in space-limited small form factor and low profile systems, rather than additional riser card and costly high-integrated motherboards.

With the features of ultra low profile 1U slim form factor and Intel Gbit Ethernet networking solution, the 1uPCIe-1000 meets the demand of industrial small form factor computing applications, slim type networking servers, and other industrial high-density, low profile, embedded applied computing solutions.

- Ultra Low Profile 1U Slim PCI Express Add-on Card Form Factor. Meet 1U (1.75inch) Height of Slim Systems.
- Intel 82574L Gigabit Ethernet Controller.
- Support 10/100/1000BASE-TX Auto-switching, IEEE802.3U Compliant.
- Support Wake-On-LAN (WoL) Function.
- External RJ45 Connector with Link and 100/1000 Mode LED.
- Meet 1U or 1.75 inches Height of Slim Systems. Install Directly without Additional Riser Card.
- Compact Size @ 31.5 x 130 mm (H x L)



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Specification

Form Factor	Ultra low profile 1U PCI Express Slim add-on card.
Bus Interface	x1 PCI Express golden finger with 1-lane PCI Express bus interface 2.5GT/s (250MBps) of data transfer bandwidth PCI Express 1.0a / 1.1 compliant
Ethernet Controller	Onboard PCIe Intel 82574L Gigabit Ethernet controller Optional PCIe Intel 82583V for OEM projects.
Ethernet Mode	10/100/1000BASE-TX auto-switching Compliant with IEEE802.3x specification.
Wake-On-LAN (WoL)	Supports Wake-On-LAN (WoL) function.
External I/O Port	RJ45 Gigabit Ethernet port with Link / Mode LED
Environment	<ul style="list-style-type: none">• Power Requirement: +3.3Vsb.• Board Dimension: 31.5 x 130 mm (H x L)• Operating Temperature : 0 ~ 60°C (32 ~ 140°F)• Storage Temperature : -40 ~ 85°C (-40 ~ 185°F)• Operating Humidity : 10 ~ 90% relative humidity, non-condensing.



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External Bracket

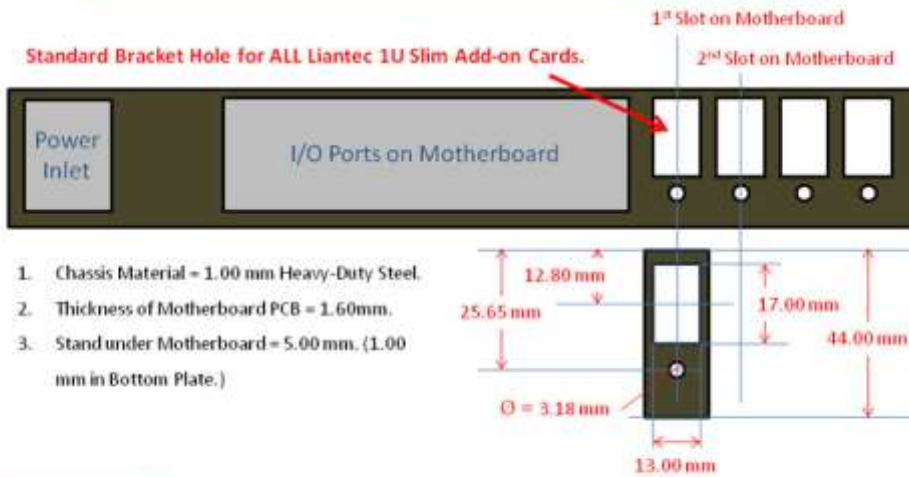


Liantec 1uPCIe-1000 offers 1U and 2U brackets for the system integrators.

- Ultra Low Profile 1U Bracket for 1U slim systems without additional riser card.
- Low Profile 2U Bracket for 2U systems with additional air holes, offers better air flow for thermal solution, suitable for compact and high performance computing systems.

Chassis Design Guide

Ultra Low Profile 1U Slim Add-on Card 1U Chassis Design Guide



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力安科技

Industrial Ultra Low Profile 1U Slim Extension Solution

Ultra Low Profile 1U Slim Add-on Card 1U / Short Chassis Reference



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Industrial Ultra Low Profile 1U Slim Extension Solution



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Barebone Solution

Model Name	Description
<u>R1C</u> 	<u>Industrial 1U 19" Rackmount Mini-ITX Barebone Solution</u> <ul style="list-style-type: none"> • 1U 19" Rackmount Chassis with 430 x 44 x 210 mm (W x H x D). • Heavy-Duty Steel / Rugged Construction for Industrial Harsh Environment. • Mini-ITX Motherboard with PCIe / PCI Expansion Slot. • Support Ultra Low Profile Slim 1U PCIe / PCI Add-on Card. • Internal 1 x 3.5" / 2 x 2.5" HDD / SSD Drive Bay. • Internal AC/DC PSU with 85% Efficiency, Standby below 1 Watt. • One 4020 System Fan on Back Panel with Operating-Removable Air Filter on Front Panel. • Front Dual USB Ports. • Removable Back Panel for Customized Motherboard.
<u>M2B</u> 	<u>Industrial Wallmount / Standalone Mini-ITX Barebone Solution</u> <ul style="list-style-type: none"> • Wallmount / Standalone Chassis with 230 x 88 x 230 mm (W x H x D). • Heavy-Duty Steel / Rugged Construction for Industrial Harsh Environment. • Mini-ITX Motherboard with PCIe / PCI Expansion Slot. • Support Ultra Low Profile Slim 1U PCIe / PCI Add-on Card. • Internal 1 x 3.5" / 2 x 2.5" HDD / SSD Drive Bay. • Internal AC/DC PSU with 85% Efficiency, Standby below 1 Watt. • One 4020 System Fan on Back Panel with Operating-Removable Air Filter on Front Panel. • Front Dual USB Ports. • Removable Back Panel for Customized Motherboard.
R1C-OEM M2B-OEM	Customized OEM chassis configuration based on the existing R1C / M2B barebone with customized motherboard, system enclosure, embedded peripheral and other integration service. For the further information about Liantec OEM service, please contact with info@liantec.com .



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Ordering Code

Ordering Code	Description
1uPCle-1000	Ultra Low Profile Slim 1U PCIe Intel Gigabit Ethernet Card with Intel 82574L Gigabit Ethernet Controller
39BRK-1URJ45	Ultra Low Profile Slim 1U Bracket with One RJ45 Port
39BRK-2URJ45	Low Profile 2U Bracket with One RJ45 Port and Air Holes

For the further information about Liantec 1uPCle-1000 Ultra Low Profile 1U Slim PCIe Intel Gbit Ethernet NIC Card, please visit the website at <http://www.liantec.com/product/1uPCle-1000.htm> or email to info@liantec.com.