SCSISA2.5U
Ultra SCSI-to-SATA Converter

User's Manual

—Version: 1.3—

HighPerTec
High Performance Technology

Release: October 2012

CE FC

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WEEE Statement

WEEE Statement

English

In order to cope with the increasing waste electrical and electronic equipment, reduce the use of landfill and incinerator, and prevent the harmful matter of waste equipment from entering the environment, the European Union (EU) has set the Directive on Waste Electrical and Electronic Equipment (WEEE) asking manufacturers to collect, recycle and treat waste electrical and electronic equipment properly. Member nations already established their free of charge recycle systems of WEEE before August 13, 2005. Accordingly, HighPerTec has to be responsible for recycling all products exported to Germany. You can return your HighPerTec product that needs recycling to a local collector.

WEEE Erklärung

German

Mit dem Ziel die steigende Menge elektrischer und elektronischer Altgeräte zu bewältigen ohne hierzu unnötig Mülldeponien und Verbrennungsanlagen zu belasten und um die Verschmutzung der Umwelt durch freiwerdende Stoffe aus den Altgeräten zu vermeiden, hat die Europäische Union (EU) die Richtlinie über Elektro- und Elektronik-Altgeräte erlassen. Die Richtlinie verpflichtet Hersteller, elektrische und elektronische Altgeräte umweltgerecht einzusammeln, zu recyceln und zu entsorgen. Die Mitgliedsstaaten der EU haben bereits ihre kostenfreien Recyclesysteme konform der WEEE vor dem 13. August 2005 eingerichtet. Entsprechend der Richtlinie sind wir verantwortlich für die umweltgerechte Entsorgung aller nach Deutschland exportierten HighPerTec Produkte. Sie können Ihr zu entsorgendes HighPerTec Produkt zu Ihrer örtlichen Sammelstelle bringen.

AEEA verklaring

Dutch

Met het doel de stijgende hoeveelheid afgedankte elektrische en elektronische apparatuur te beheersen zonder hiervoor onnodig stortplaatsen en verbrandingsovens te belasten en om de vervuiling van het milieu door vrijkomende stoffen uit de afgedankte apparatuur te voorkomen, heeft de Europese Unie (EU) de richtlijn betreffende afgedankte elektrische en elektronische apparatuur besloten. Deze richtlijn verplicht fabrikanten afgedankte elektrische en elektronische apparatuur in te zamelen, te recyclen en te verwijderen. De lidstaten van de EU hebben reeds de kosteloze recyclesystemen volgens de AEEA vóór de 13 augustus 2005 ingericht. Conform de richtlijn is HighPerTec verantwoordelijk voor de verwijdering van alle naar Nederland geëxporteerde HighPerTec producten. U kunt uw afgedankt product naar uw locale inzamelplaats brengen.

Elektrik ve Elektronik Madde Atıkları Demeci

Turkish

Elektrik ve electronik madde atıklarının yukselmesiyle basedebilmek ,arazi doldurma ve cop yakma fırını kullanımını azaltmak,atık madde zararlarının cevreye yayılmasını onlemek icin Avrupa Birligi (AB),ureticilerden elektrik ve elektronik madde atıklarını gerektigi gibi toplamalarını,geri donusturmelerini ve kimyasal isleme tabi tutmalarını talep etmek icin Elektrik ve Elektronik Madde Atıkları uzerine bir direktif hazırladı.Topluluk uyeleri,13 Agustos 2005' ten once elektrik ve elektronik madde atıklarının ucretsiz geri donusum sistemlerini coktan olusturmuslardı.Bundan dolayı, HighPerTec, Almanya'ya ihrac ettigi butun urunlerin geri donusumunden sorumludur. HighPerTec urunlerin geri donusum gerektirirse yerel toplayicilara geri verebilirsiniz.

WEEE бюлетень

Russian

ЧтобЫ cIIравиться с увеличивающимся ненуӽным электрическим и электронным оборудованием, уменъшите использование закапывания мусора и использования установки для сжигания отходов, препятствуйте вредному выбросам загрязнять окружановки среду, Европейский союз (ЕС) установил Директиву по Ненужному Электрическому и Электронному Оборудованию (WEEE) для того, чтобы изготовителей собрали, перерабатывали и вообще проявили внимание к ненужному электрическому и злектронному оборудованию должным образом. Члены нации установили бесплатную систему и электронному оборудованию должным образом. Члены нации установили бесплатную систему переработки WEEE до 13 августа 2005. Соответственно, HighPerTec обязан быть ответственным за то, что переработал все продукты, экспортируемые в Германию. Вы можете возвратнть ваш продукт HighPerTec, который нуждается в рециркуляции местному сборщику.

WEEE Statement

French

Afin de gérer la quantité croissante de déchets électriques et électroniques, de réduire l'utilisation des décharges et des incinérateurs et d'éviter que des déchets nocifs ne polluent l'environnement, l'Union Européenne a publié la directive WEEE sur les déchets électriques et électroniques. Celle-ci spécifie que les fabricants doivent collecter, recycler et traiter l'équipement électronique et électrique usagé. Depuis le 13 août 2005, les pays membres ont mis en place un système de recyclage gratuit selon le WEEE,.

De ce fait, HighPerTec est responsable du recyclage de tous les produits exportés vers l'Allemagne. Vous pouvez mettre au rebut votre équipement HighPerTec usagé dans votre centre local de recyclage.

Pour plus d'informations sur les lieux de mise au rebut des équipements usagés destinés au recyclage, veuillez contacter votre mairie, votre service de traitement des déchets ménagers ou le magasin où vous avez acheté le produit.

RAEE

Spanish

Con la finalidad de reducir el incremento de residuos eléctricos y de material electrónico, reduciendo el uso de los vertederos e incineradoras y prevenir el preocupante aumento del contacto de estos residuos con el medio ambiente. Por este motivo la Unión Europea ha fijado la Directiva de Residuos de Aparatos Eléctricos y Electrónicos (RAEE) solicitando a los fabricantes la recolección, reciclaje y tratamiento de ests residuos correctamente. Los paises miembros ya han establecido su sistema de reciclaje gratuito de RAEE antes del 13 de Agosto del 2005. Por este motivo HighPerTec es el responsable del reciclaje de todos los productos exportados a Alemania. Usted puede devolver su producto HighPerTec a un punto de recogida local cuando desee reciclarlo.

Dichiarazione WEEE

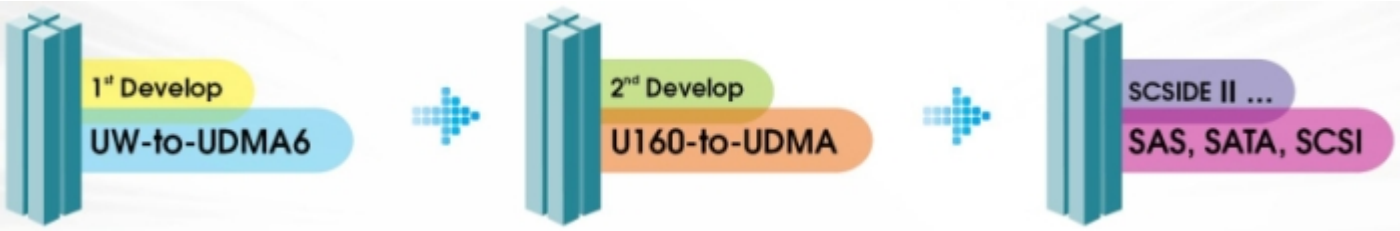
Italian

Per far fronte all'aumento dei residui delle apparecchiature elettriche ed elettroniche, ridurre l'uso di materiale di riporto e degli inceneritori, ed impedire che il materiale nocivo delle apparecchiature residue entri a contatto con l'ambiente, l' Unione Europea (UE) ha stabilito le Direttive sui Residui delle apparecchiature Elettriche ed Elettroniche (WEEE) chiedendo ai fornitori di raccogliere correttamente, riciclare e trattare le apparecchiature elettriche ed elettroniche residue. Le nazioni facenti parte dell' Unione Europea hanno già stabilito il loro sistema gratuito di riciclaggio di questo materiale (WEEE) prima del 13 agosto 2005. Di conseguenza, HighPerTec è responsabile del riciclaggio di tutti i prodotti esportati in Germania. Potete restituire il vostro prodotto acquistato da HighPerTec che deve essere riciclato da un' azienda specifica locale.

Chapter 1 About SCSI- to-IDE and SCSI-to-SATA

Overview

HighPerTec is an expert of storage with many years of experiences in the design, development and application of storage devices. The quick solutions it provides always meet the market demand, and have won praise from some well-known manufacturers and customers worldwide.Over the years the SCSI-to-IDE and SCSI-to-SATA converter technology obtained an important market share, but now owing to the change of times, its SCSIDE technology is no longer simply used to make SCSI-to-IDE (or SATA) Bridges that turn ATA/IDE (or SATA) hard drives or ATAPI devices (CD into high-performance SCSI ones. The technology can be furthermore used to design serialized, visualized and fit-for-network Bridges to connect more storage devices and to do more transformations like SATA-to-SAS, Network-to-SATA/SAS, etc. For these different applications, HighPerTec has given the technology a new name SCSIDE II. That means the second generation of SCSIDE technology. Storage products based on SCSIDE II are more practical and more popular.



Besides having the new functions of HighPerTec's IC, the series products of SCSIDE II contain the technology of the first generation, too. In operation, SCSIDE II uses the built-in RISC on the chip for interface transformation to lower the burden of CPU in data transfer, and accordingly enhances the I/O performance, makes the whole system more stable and more efficient. The applications of SCSIDE II on different storage devices are flexible and steady. The prices of SCSIDE II products are also reasonable.

The reason of turning an IDE / SATA / SAS interface into a high-end, all-purpose SATA / SCSI / Network one is that corporations have desired to get highly efficient and stable interfaces for data transfer by using inexpensive storage interfaces so as to accomplish the economy of costs. Obviously, SCSIDE II has the technological advantage and its price meets the corporate budget. HighPerTec's series products of SCSIDE II are quite compatible with Windows NT/2000/XP/Vista/7/8, Linux, Unix and Mac.

SCSI-to-SATA converter bridges (SCSISAxxx)

The basic type of SCSIDE II is raising a SATA interface from 1.5G to 3G. The SCSI interface is raised to Ultra 320 too. Besides being applied to SATA devices for transformation, SCSIDE II also supports the newest SATAPI devices for the transformation of SATA to SCSI. Furthermore, the form factors of SCSIDE II products include the industrial standards, too. In other words, such modularized products are specially designed for industrial storage equipment.

Chapter 2 Introduction

2.1 Overview

SCSISA2.5U is a SCSI-to-SATA II converter bridge. Through its connection to a SCSI host 50-pin connector the bridge can turn a 2.5" SATA hard drive or SSD into a 50-pin single ended SCSI HDD. You can replace old or damaged SCSI HDD by the bridge with high performance and cost-effective SATA HDD / SSD or use higher capacity drives that are easy to get with SATA interface.

2.2 Features

- Transparent operation. The SATA hard drive or SSD works as a real SCSI drive
- Converts low-priced SATA devices to high-performance SCSI interface delivers great savings
- Creates new SCSI devices with higher capacities in economic cost
- Designed in 3.5” form factor for a built-in 2.5” SATA hard drive or SSD drive
- Easy to install and use
- Supports most 50 pin Ultra SCSI / SCSI interfaces
- Cross-platform operation supports Windows NT/2000/XP/2003/Vista/7/8, Linux, Mac, Sun

2.3 Specifications

- SCSISA2.5U supports 20MB/s of transfer rate (= max. rate from the U-SCSI Interface)
- Supports one SATA hard drive or SSD with 1.5G / 3.0G or faster
- Supports most SCSI RAID cards
- Provides Flash ROM for firmware updates
- Selectable SCSI ID from 0 to 7 using jumpers

2.4 Package and Others

2.4.1 Package

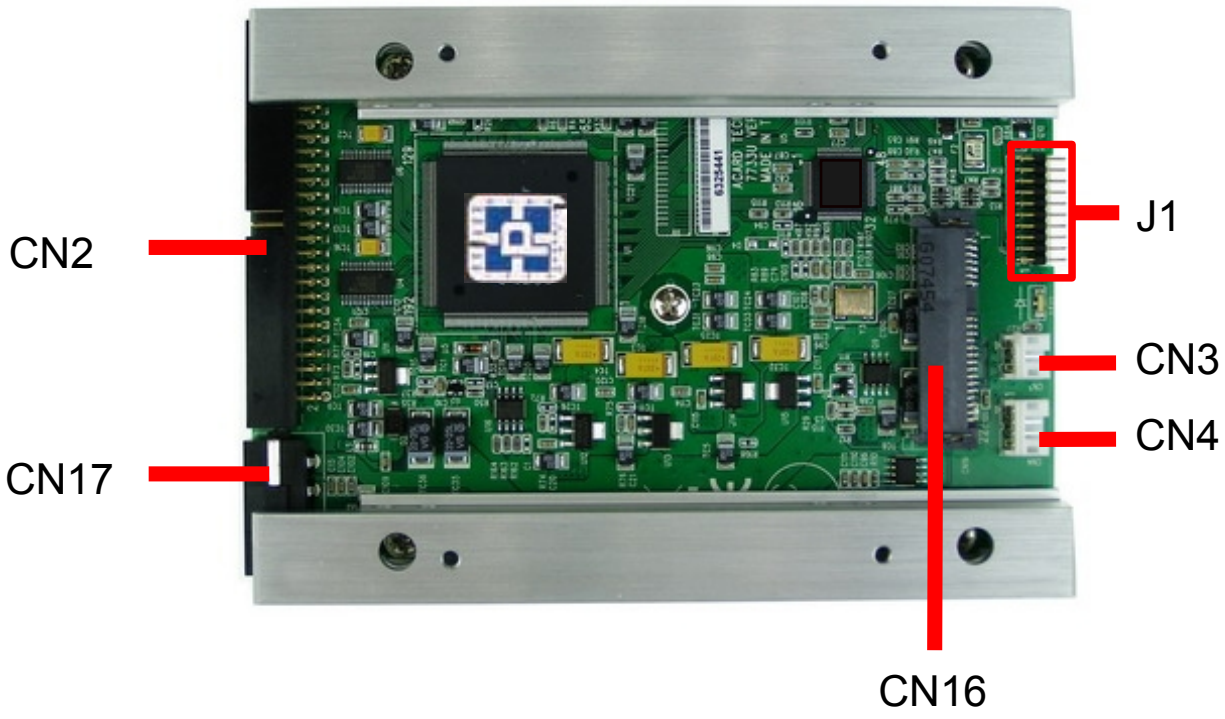
- SCSISA2.5U converter × 1
- screws for 2.5” SATA hard drive or SSD × 4
- screws for SCSISA2.5U × 4
- User's manual × 1

2.4.2 Spec Parameters

Temperature: Operation: -20°C to 70°C
Storage : -40°C to 85°C
Humidity: 15% to 90%
Size: 14.6 cm(L) x 10.1 cm (W) x 2.5cm (H)

2.4.3 Connectors

CN2: 50-pin SCSI connector
CN17: 4-pin power connector
CN16: SATA II integrated connector
CN3: Reserved
CN4: Reserved
J1: Jumper

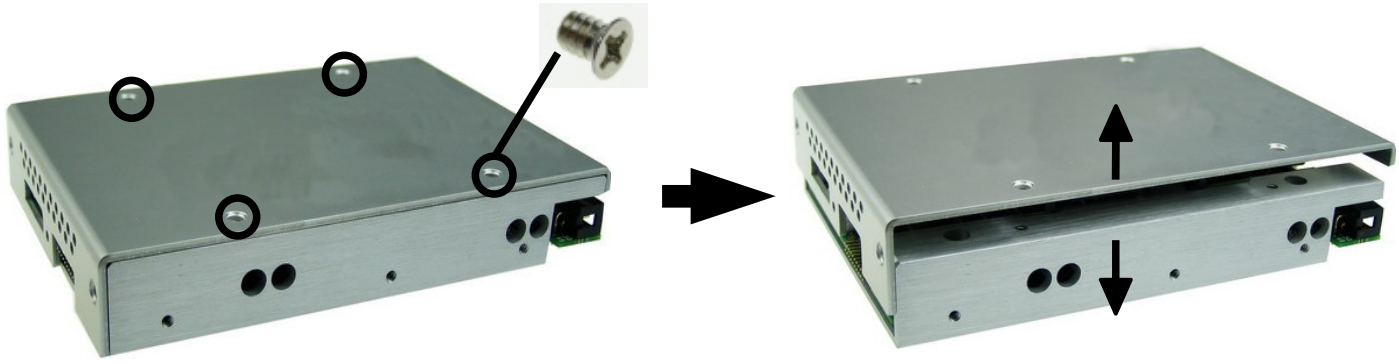


Chapter 3 Hardware Installation

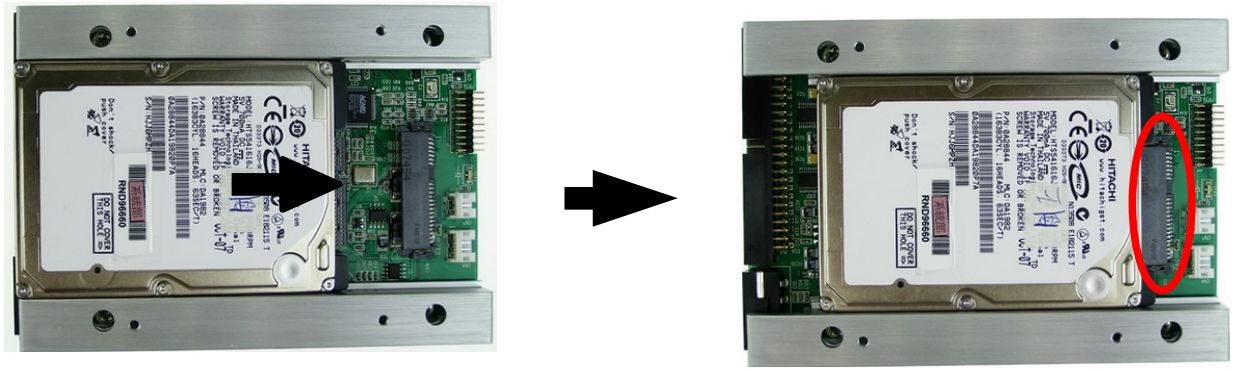
3.1 Install a 2.5" SATA HDD or SSD

Follow the procedures below to install a 2.5” SATA HDD or SSD into the SCSISA2.5U frame.

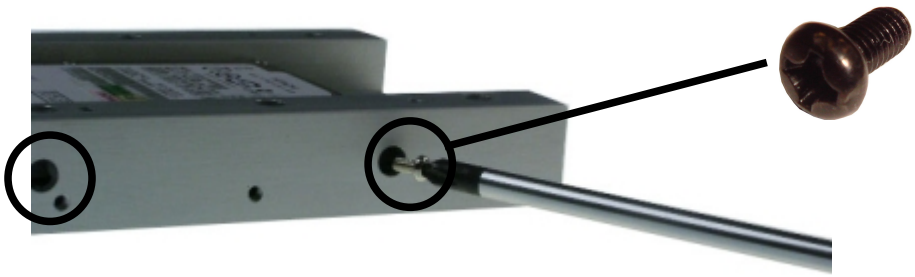
1. Remove the 4 top screws of the SCSISA2.5U and open the upper case / cover.



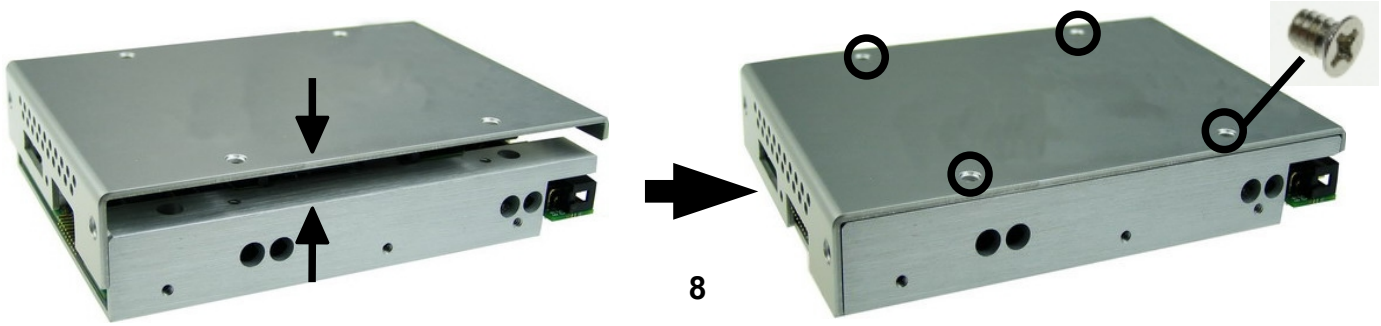
2. Slide the 2.5" SATA hard drive or SSD along the sides of SCSIDE2.5U until it connects CN16.



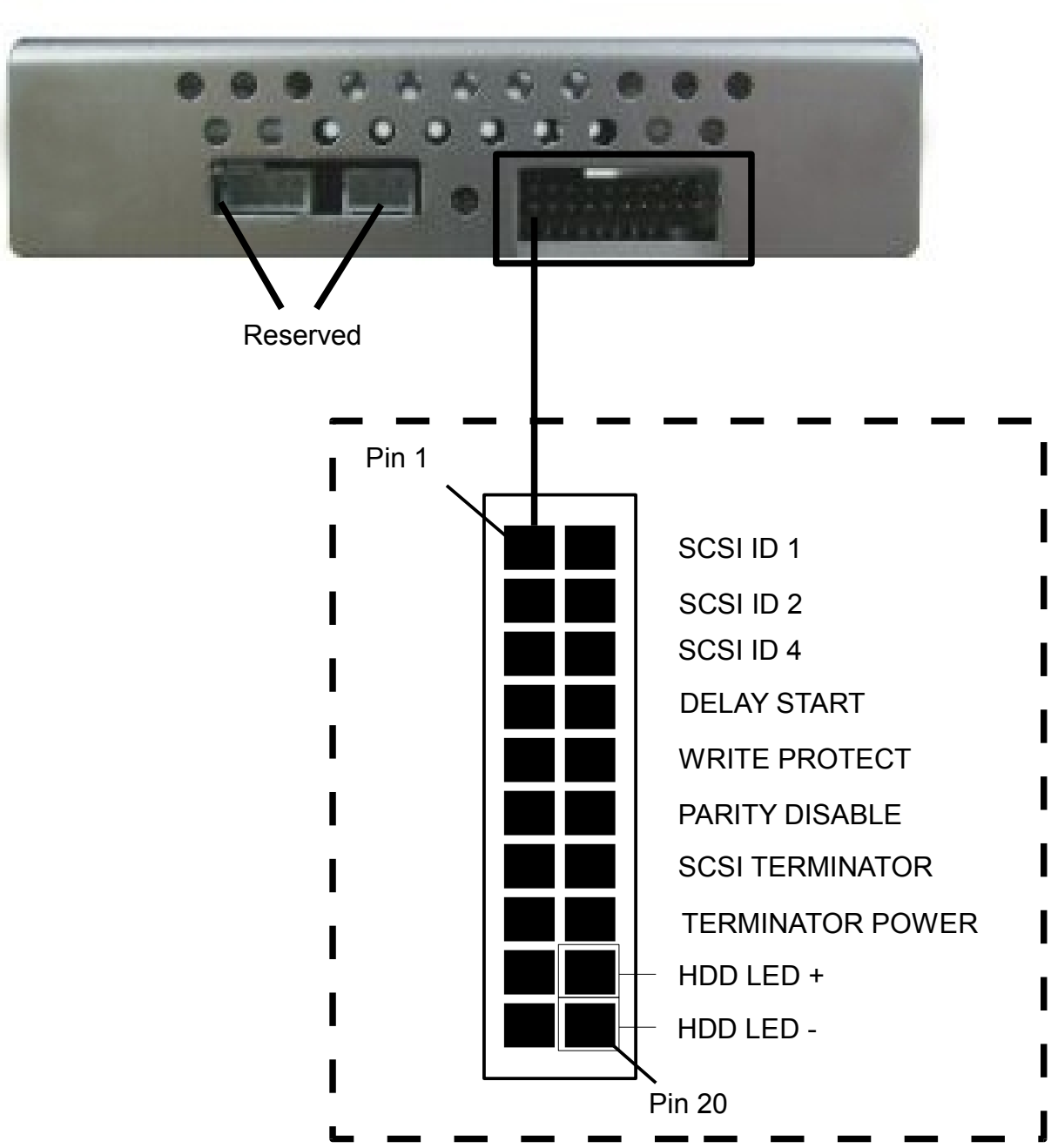
3. Fix the SATA hard drive or SSD to the two sides of SCSIDE2.5U with the enclosed 4 screws.



4. Return the upper cover of the SCSISA2.5U bridge and fix it with the 4 screws.



3.2 Set the Jumpers



	Jumper Setting	
	Open	Short
SCSI ID1	SCSI ID No Change	SCSI ID + 1
SCSI ID2	SCSI ID No Change	SCSI ID + 2
SCSI ID4	SCSI ID No Change	SCSI ID + 4
Delay Start	Normal Start	Delay Start
Write Protect	Normal Read/Write	Read Only
Parity Disable	Parity Enabled	Parity Disabled
SCSI Terminator	Built-in Terminator Disabled	Built-in Terminator Enabled
Terminator Power	Terminator Power Disabled	Terminator Power Enabled

Chapter 4 Troubleshooting

After installing the SCSISA2.5U, if it doesn't work properly, try to eliminate the problem referring to the procedures below:

1. Check the hardware installation
   a. Make sure that the SATA HDD or SSD was firmly connected to the SCSISA2.5U.
   b. Make sure that the SCSISA2.5U was firmly connected to the SCSI cable.
   c. Make sure the SCSI terminator and terminator power was properly set.

2. Check the SCSI ID setting
   a. Make sure if the SCSI ID is unique in the same SCSI channel.
      Note: The default SCSI host adapter ID is 7. If not required, please set ID to other ones.
   b. Make sure if the SCSI ID is supported by your SCSI host adapter.
      Note: Older SCSI card with narrow SCSI bus only does not support SCSI ID 8 or higher.

3. Check the device detection
   a. Make sure the SCSISA2.5U was detected by the SCSI host adapter.
   b. Make sure the model name was detected correctly.
   c. Make sure the SCSI synchronization speed is correct.

4. Check there is no error while data accessing. If there is an error occurred, try to:
   a. Lower the data transferring speed.
   b. Shorten the SCSI cable.
   c. Simplify the SCSI connection ex: connect only one device at a time.
   d. Exchange another SCSI cable or terminator.

Unfortunately, if the problem remain unchanged, please fill in the technical support form at the end of this manual and mail it to us for additional help.

Technical Support Form

Email address: info@highpertec.com or info@hantz.com
Website: http://www.highpertec.com or www.SCSIDE.com

Model Name* (ex: SCSISA2.5U)			
Hardware (PCB) version*		Firmware version*	
System Configuration			
Motherboard/System model*			
SCSI host adapter/chip brand & model*			
SCSI host BIOS version			
Other I/O card*			
Operating System*			
SATA HDD or SSD brand & model*			
SATA HDD or SSD capacity			
SATA HDD or SSD firmware			
Problem description*			

『 * 』 is required.