

产品概况

PCI Express用于桌面, 移动, 服务器以及网络和通信设备的许多不同应用中. 因此, 会有多种形式(DIP/SMT)及尺寸(36pin/64pin/98pin/164pin)的连接器, 以满足这些不同应用程序的独特需求. PCI Express连接器系统满足2.5GT/s到32GT/s更高带宽应用的工业规格要求. 优化连接器设计提供了更好的特性阻抗连续性, 从而改善了插入损耗和回波损耗. Gen4产品简单实用的设计(连接器中地端子没有短接)有助于提供非常有成本优势的解决方案. Gen5产品独特的共地设计有着非常优秀的高频性能。

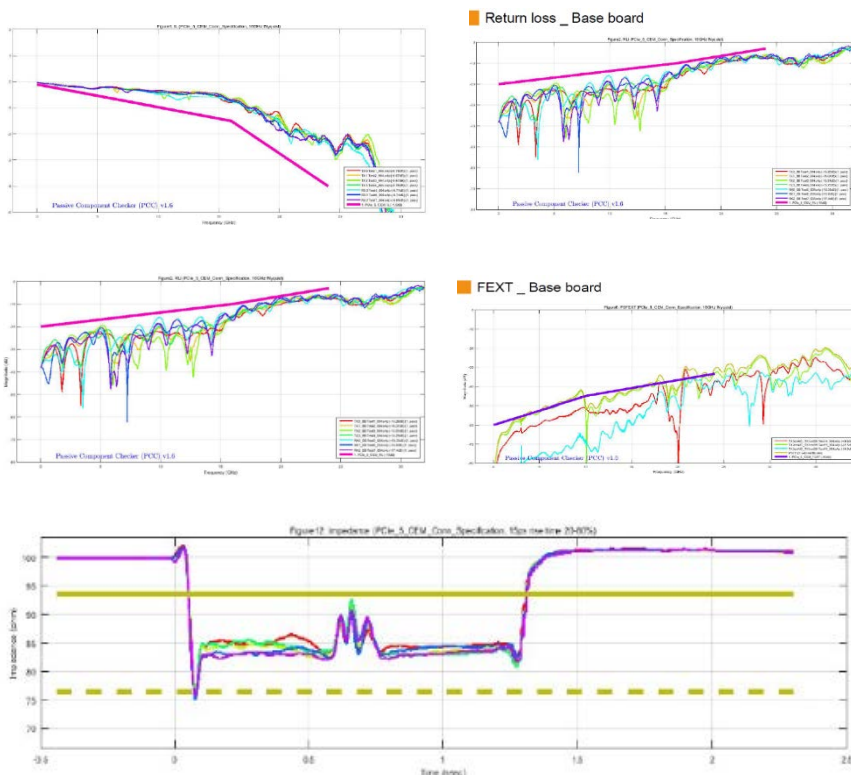
产品应用

- 台式电脑
- 服务器
- 通用内存扩展应用

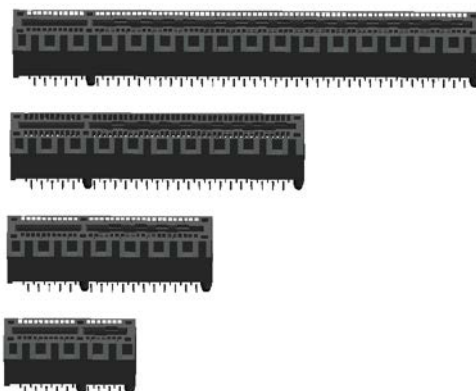
技术信息

- PCI Express连接器系统满足2.5GT/s到32GT/s更高带宽应用的工业规格要求
- 特性阻抗: 85Ω,
- 规格有:X1/X4/X8/X16
- Gen5产品共地设计: 地端子与金属片内部短接.
- Gen4有DIP和SMT两种规格, Gen5 为SMT规格
- Gen5有带耳扣和shell的规格.

高频信号完整性



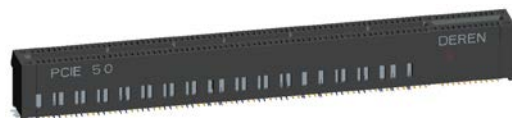
PCI E GEN4



PCI E GEN5



With shell & latch type



Standard type

机械性能

- 插入力(模组卡到连接器):每对PIN 1.15N最大
- 拔出力: 每对PIN 0.15N最小。
- 端子保持力:200gf min。
- 耐久性:50次。

电气性能

- 低阶接触电阻:30mΩ初始, Δ10mΩ
- 绝缘电阻:1000MΩ min。
- 耐电压:500VAC。
- 额定电流:1.1A/pin

环境性能

- 易燃性:UL 94 V-0
- 低卤素:最大1000ppm Cl, 最大1000ppm Br
- 符合RoHS指令2011/65/EU
- 工作温度:-55°C~ + 85°C

产品规范

- PCI Express Card 电动机械规范
- 得润产品规范: DR-PS-0088

GENERAL PROFILE

PCI Express is used in many different applications in desk top, mobile, server, as well as networking and communication equipment. Consequently, multiple variations of form factors and connectors will exist to suit the unique needs of these different applications. PCI Express connector system meets industrial specification requiring higher bandwidth applications from 2.5GT/s to 32GT/s. The optimized connector design delivers better impedance continuities to improved the insertion loss and return loss. Regarding Gen4 products, the simple, functional design (without ground pins shortcut in the connector) contributes to a very cost-effective solution. And the unique GND joint design of Gen5 products has excellent SI performance.

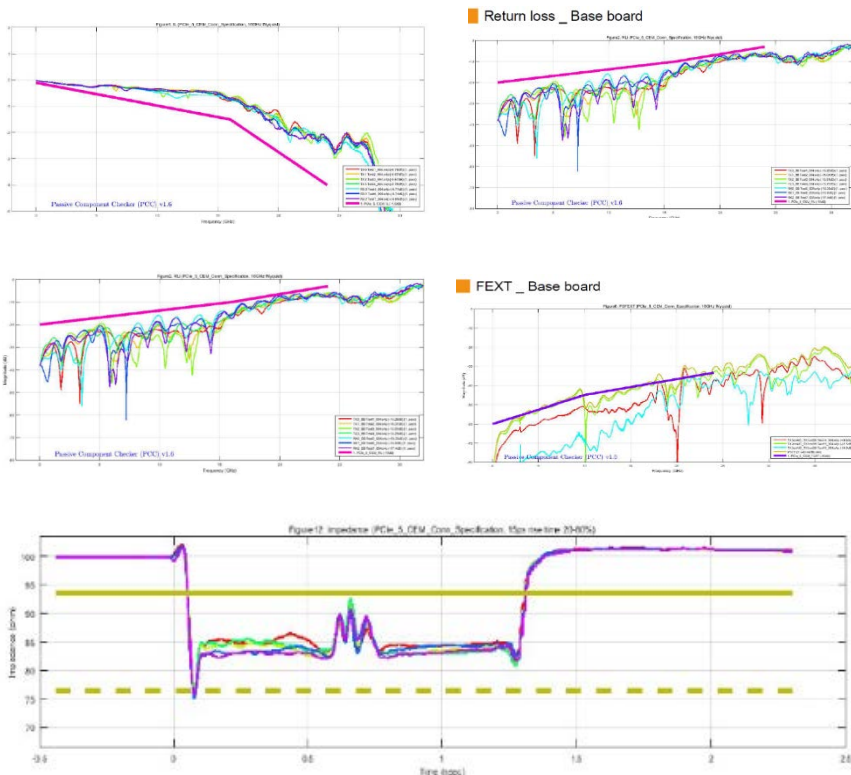
TARGET MARKET

- Desk Top
- Server
- Other add-in card expansion application

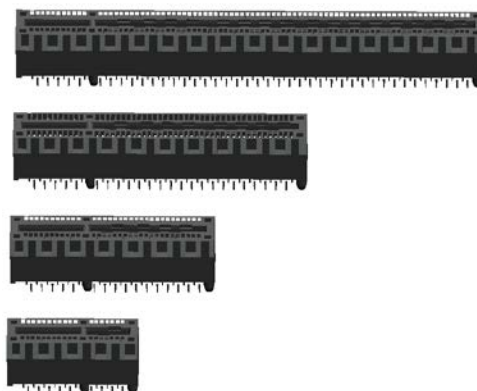
TECHNICAL INFORMATION

- Data rates scalable from 2.5GT/s to 32GT/s to support system upgrades without costly redesigns.
- Reference differential impedance: 85Ω
- Optional connector form factors: X1/X4/X8/X16
- GND joint design for Gen5 products: The ground pins are short-circuited with the metal plate.
- Gen4: dip and SMT type, Gen5: SMT type.
- With latch and shell type option for Gen5 products.

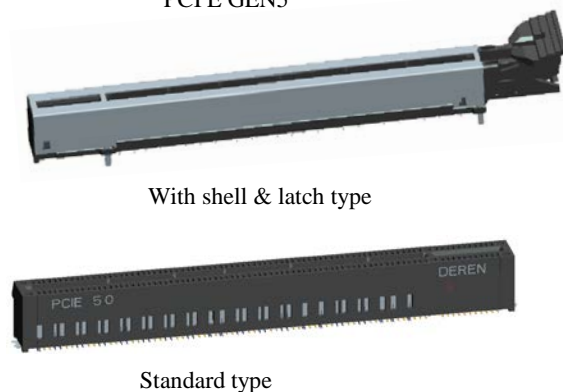
SI PERFORMANCE



PCI E GEN4



PCI E GEN5



MECHANICAL PERFORMANCE

- Insertion force (module to connector): 1.15N/Pair max.
- Unmating force: 0.15N/Pair min.
- Terminal retention force: 200gf min.
- Durability: 50cycles.

ELECTRICAL PERFORMANCE

- Low level contact resistance: 30mΩ initial, Δ10mΩ
- Insulation resistance: 1000MΩ min.
- Dielectric withstanding voltage: 500VAC.
- Current rating: 1.1A/pin De-rate

ENVIRONMENTAL

- Flammability: UL 94 V-0
- Low halogen: 1000ppm max. Cl, 1000ppm max Br.
- Compliant with RoHS directive 2011/65/EU
- Operating Temperature: -55° C to + 85° C

SPECIFICATION

- PCI Express card electromechanical specification
- DEREN product spec: DR-PS-0088