CARD EDGE PRODUCT FAMILY
PCI EXPRESS

GENERAL PROFILE

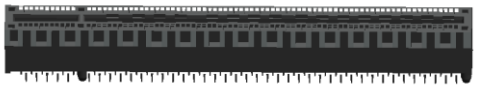
PCI Express is used in many different applications in desk top, mobile, server, as well as networking and communication equipment. Consequently, multiple variations of form factors and connectors will exist to suit the unique needs of these different applications. PCI Express connector system meets industrial specification requiring higher bandwidth applications from 2.5GT/s to 64GT/s. The optimized connector design delivers better impedance continuities to improved the insertion loss and return loss. The simple, functional design (without ground pins shortcut in the connector) contributes to a very cost-effective solution.

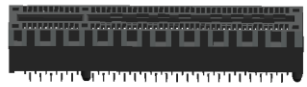
TARGET MARKET

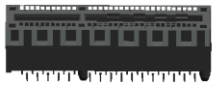
- Desk Top
- Server
- Other add-in card expansion application

TECHNICAL INFORMATION

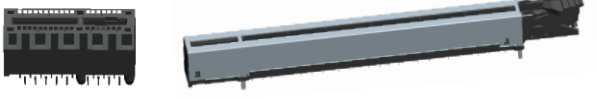
- Data rates scalable from 2.5GT/s to 64GT/s to support system upgrades without costly redesigns.
- Reference differential impedance: 85Ω,Pitch:0.6mm
- Optional connector form factors: X1/X4/X8/X16
- The metal shield is short-circuited with the grounding terminal, which shortens the signal return path and improve the crosstalk. The contact is firm and reliable with the high transmission rate of 32GT/s(GEN5)& 64GT/s(GEN6).
- Gen4 dip and SMT type，Gen5&6 SMT type.
- With latch and shell type.



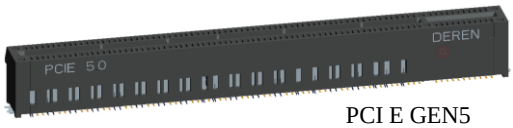




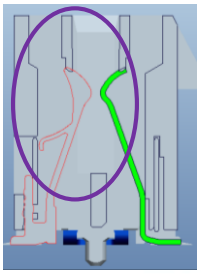
PCI E GEN4

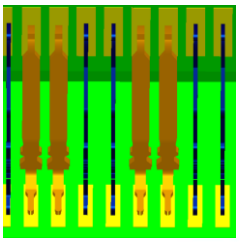


With shell & latch

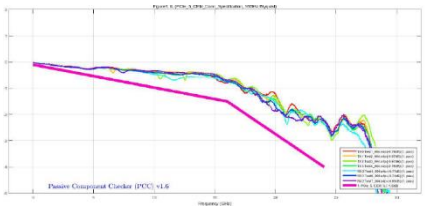


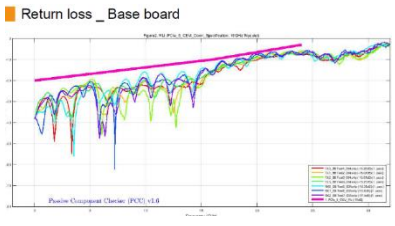
PCI E GEN5

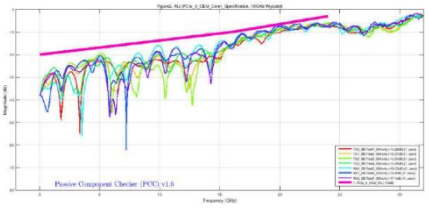


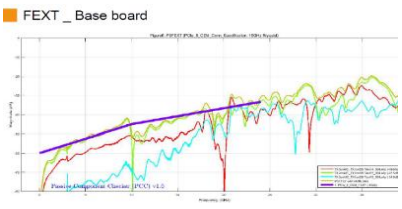


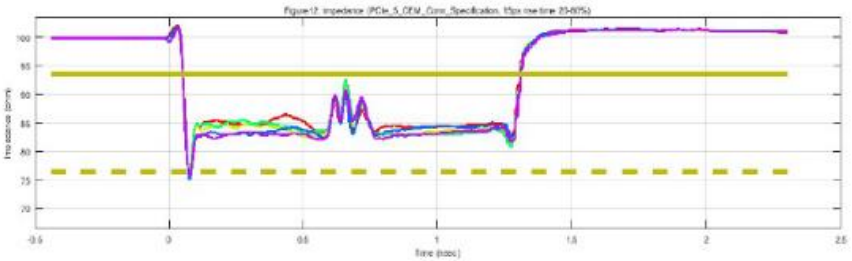
SI PERFORMANCE











MECHANICAL PERFORMANCE

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

ELECTRICAL PERFORMANCE

- Low level contact resistance: 30mΩ initial, △10mΩ
- 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