

产品概况

得润DDR SO DIMM连接器符合JEDEC工业规范，可提供不同世代的产品，最高传输速率可达6.4GT/s。有四种连接器高度: 4H/5.2H/8.0H/9.2H。为了节省空间，低高度和高高度连接器可以堆叠使用，由于内存卡的厚度是3.6 mm max., 低高度和高高度的连接器之间的高度差需要至少4mm。因此，匹配高度可以是4H和8.0H, 5.2H 和 9.2H。客户可以选择不同高度来适配应用。

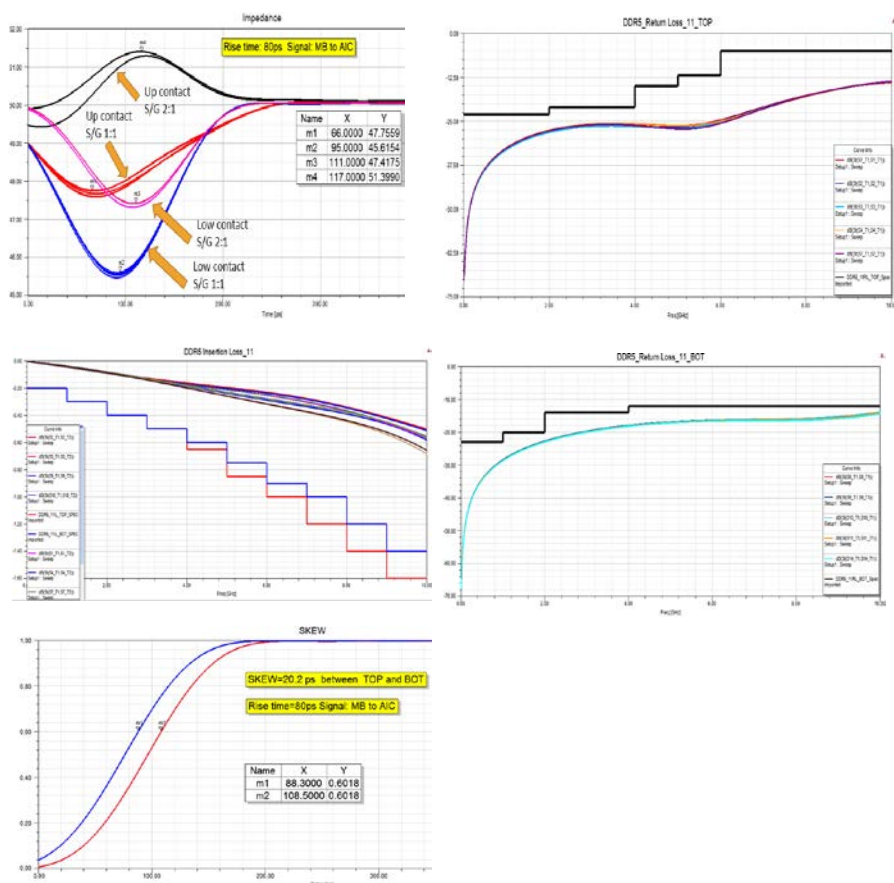
产品应用

- 笔记本电脑
- 一体机电脑

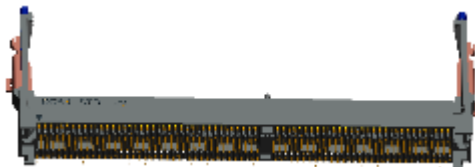
技术信息

- 数据传输速率高达6.4GT/s.
- 单端信号特性阻抗: 50Ω
- 上下端信号传输延迟: 20±7ps.
- 25度斜插拔角度
- 正反向不同的key位
- 塑耳和铁耳两种结构, 5代为铁耳设计
- 自动锁卡设计
- 防卡插不到位设计
- 防耳扣打开过量导致变形设计

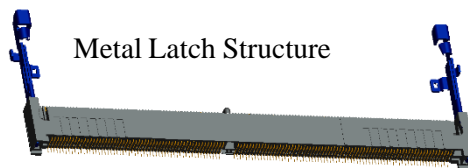
高频信号完整性



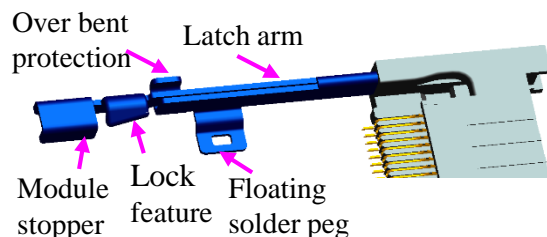
4H & 5.2H STD & RVS



8H & 9.2H STD & RVS



Metal Latch Structure



机械性能

- 插入力(模块到连接器): 59.8N max
- 端子保持力: 100gf min.
- 耐久性: 25cycles.

电气性能

- 低阶接触电阻: 4.0H/5.2H: 40 mΩ Max
8.0H/9.2H: 55 mΩ Max
- 绝缘电阻: 1MΩ min.
- 耐电压: 250VAC.
- 额定电流: 0.5A/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℃~ +85℃

产品规范

- JEDEC 规范:
DDR4 260pin: SO-018 / MO-310
DDR5 262pin: SO-024 / MO-337
- 得润产品规范: DR-PS-0012

GENERAL PROFILE

DDR SO DIMM Connectors meet JEDEC industrial specification. Support diverse generations of connectors with data rate transfer up to 6.4GT/s. There are four kinds of connector height: 4H/5.2H/8.0H/9.2H. In order to save space, the lower connector and higher connector can be stacked together. As the module thickness is 3.6 mm max., the height variation between the lower and higher connectors should be 4mm at least. Hence, the match height should be 4H and 8.0H, 5.2H and 9.2H. Customer can chose different height connectors to meet their own applications.

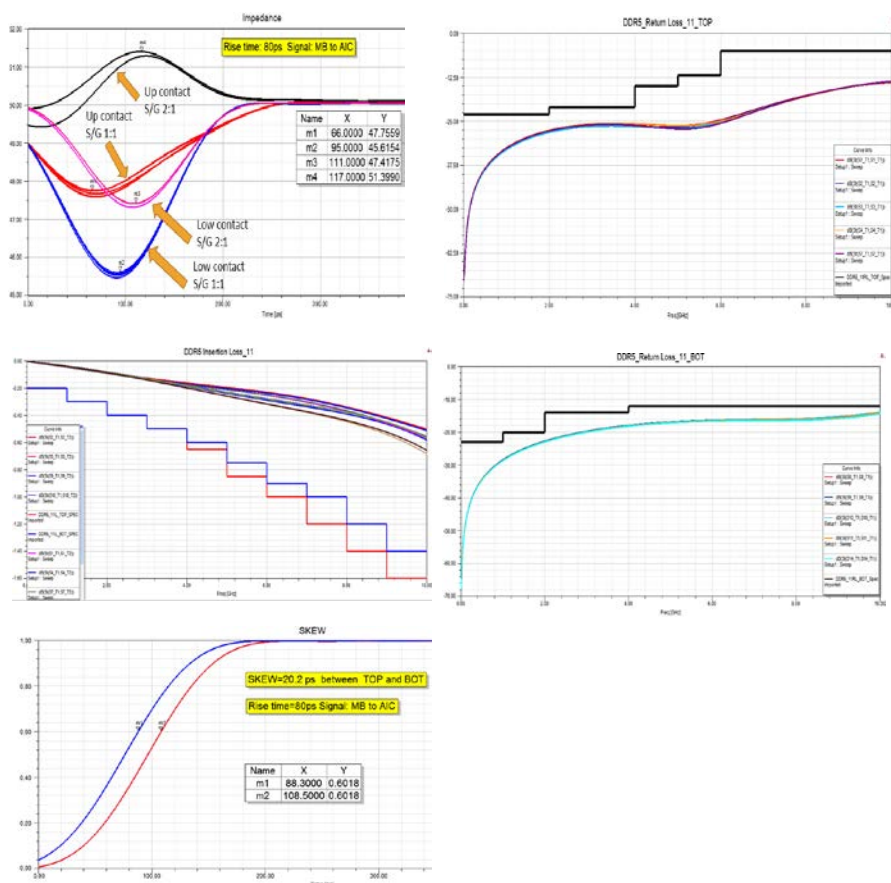
TARGET MARKET

- Note book computer
- All in one computer

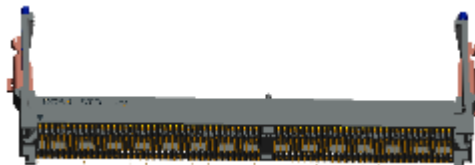
TECHNICAL INFORMATION

- Data rate transfer up to 6.4GT/s.
- Single end signaling with 50Ω nominal impedance
- Skew between up & low contact is 20 ± 7 ps.
- 25 degree Angled module insertion & extraction.
- Polar key design for standard & reverse types.
- Plastic latch and metal latch two types, Gen5 connector is metal latch
- Auto lock latch design
- Latch design against module inadequate installation
- Unique latch design to prevent latch over bent

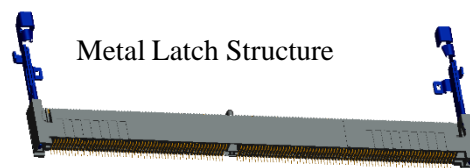
SI PERFORMANCE



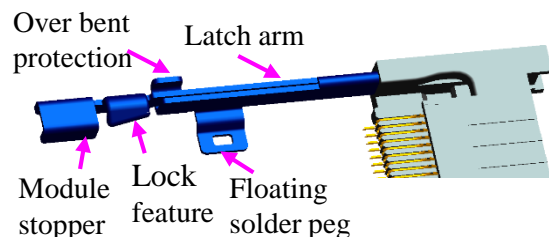
4H & 5.2H STD & RVS



8H & 9.2H STD & RVS



Metal Latch Structure



MECHANICAL PERFORMANCE

- Insertion force (module to connector): 59.8N max
- Terminal retention force: 100gf min.
- Durability: 25cycles.

ELECTRICAL PERFORMANCE

- Low level contact resistance: 4.0H/5.2H: 40 mΩ Max
8.0H/9.2H: 55 mΩ Max
- Insulation resistance: 1MΩ min.
- Dielectric withstanding voltage: 250VAC.
- Current rating: 0.5A/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

- JEDEC SPEC:
 - DDR4 260pin: SO-018 / MO-310
 - DDR5 262pin: SO-024 / MO-337
- DEREN PRODUCT SPEC: DR-PS-0012