

U.3 Connector



OVERVIEW

U.3 connector meets SAS 4.0(24Gb/s) and PCIe 4.0(16GT/s) speeds is used in servers. The 68-position, SAS/PCIe receptacle implementation of high speed Serial Attached SCSI (SAS) hard disk drive (HDD) interface as well as Peripheral Component Express (PCIe)-based devices. The molded guide post allows device plug and receptacle to selfalign during mating process.

FEATURES & BENEFITS

- Designed to support hot-plugging and blind mating
- PCIe/SAS compatible receptacle and applicable to SAS, PCIe and SATA devices meet different needs of applications
- Supports data rates up to SAS/PCIe 4.0
- Footprint backward compatible to 12G, 6G and 3G SAS connectors,Same interface can be used for cost-effective storage
- HDDs as well as higher performance server SSDs

PRODUCT APPLICATIONS

Servers/Storage Devices
Workstation
JBOD

INDUSTRY STANDARDS

SFF-8639

TECHNICAL INFORMATION

MATERIAL

Contact Base Metal: Copper Alloy
Contact Area Finish: Gold over Nickel
Solder Area Finish: Metta Tin over Nickel
Board lock: Stainless steel
Housing: High temperature thermoplastic(UL 94V-0)

ELECTRICAL PERFORMANCE

Voltage : 30V AC(RMS MAX)
Current : 1.5A MAX Per Power Pin
0.5A MAX Per Signal Pin

ENVIRONMENTAL

Operating temperature : 0°C TO +55°C
Storage temperature : -40°C TO +85°C

MECHANICAL PERFORMANCE

Rated Durability Cycles 200
Mating Force: 0.87N/pin MAX
Unmating Force: 0.12N/pin MIN

PACKAGING

Tape & Reel

SPECIFICATION

ES-11-00-0030

Partial PN Table

Product Numbers	Product Description
PSS08A-6833-T0N-1H	Vertical SMT with solder tab