SAS/Micro SAS Connector

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Now you're connected!

Product Overview

Amphenol's commercial connector products are used in a variety of end user applications including networking, telecom, storage & server, automotive, wireless, mobile devices as well as any industry standard.

The product portfolio from Amphenol East Asia includes SAS/Micro SAS/SATA Express/SATA/Micro SATA/Slim SATA/SCA2/SCSI Express /M.2 in storage connectors, HSD/Power/Pin Header/Socket/Terminal Block/USB3.0/Micro HDMI in automotive connectors, DSUB/Micro Ribbon/Mini D Ribbon in external I/O connectors, SIM/Micro SIM/SD/SD Combo/Micro SD card holder connectors in mobility system solutions and Power connectors with very wide current options from 1Amp to 1000Amp in any industry.

SAS/Micro SAS Connector (Socket/Plug)

Amphenol's Serial Attached SCSI (SAS) Connector is a type of internal storage connector, providing socket on a host to mate with plug residing on device of Hard Disk Drive (HDD) or Solid State Driver (SSD) or Solid State Hybrid Drive (SSHD) in server and computer applications.

Amphenol focused on storage connector market over 20 years and is leading in SI technology and our professional design experience can meet your need no matter standard requirements or product specialty.

Product Features

- Compliant to Specification of SFF-8482 for SAS, SFF-8486 for Micro SAS and SFF-8680 for 12G SAS, and offer backward compatibility with SATA.
- Various data transfer speed of 3.0Gbps, 6.0Gbps and 12Gbps.

Applications

Direct Attach Storage | SAS Fabrics | External Storage | HDD/SSD

How to define your SAS/Micro SAS connector

Series	Gender	Data Speed	Termination	Housing Material	Board Mounting Accessary	PCB Layout	Contact Plating	Packing
SAS Micro SAS	Socket Plug	3Gbps 6Gbps 12Gbps	Straight SMT R/A SMT Straight PTH R/A PTH Press fit Hybrid ……	LCP PPA ……	No accessary Hold Down Board Lock Solder Tab ……	Standard Tailor - Made	0.76um Au 0.38um Au Gold flash ……	Tray Cover Tape& Reel

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Electrical Data

- Current:1.5A per pin
- Dielectric strength: 500 VAC for 1 minute min
- Insulation resistance: 1,000 mega ohm min
- LLCR: 30 million ohm max (initial)
- Data rate: 12Gbps

Mechanical Data

- Material:
  - o Housing: High temperature thermoplastic, UL 94V-0
  - o Contact: Copper Alloy
  - o Solder Tab/Solder blade: Copper Alloy
- Contact Plating:: Au/Ni on mating area and Sn/Ni on soldeirng area
- Insertion Force: 25N Max(Backplane); 50N Max(Cable)
- Withdrawal Force: 50N Min(Backplane); 20N Min (Cable)

Environmental Data

- Operating temperature :0℃~+55℃
- Storage temperature: -40℃~+85℃

Typical 12G SAS Connector

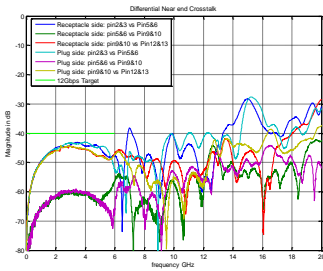| 12G SAS R/A SMT Plug P/N: SASM213003XXX	12G SAS R/A SMT Plug P/N: SASM313008XXX	12G SAS V/T SMT Plug P/N: SASM313010XXX
12G SAS V/T SMT Socket P/N: SAS3F313009XXX	12G SAS V/T SMT Socket P/N: SAS3F313010XXX	12G SAS V/T Hybrid Socket P/N: SAS3F511001XXX

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Related Products

Amphenol manufactures a complete product range of Micro SAS connector with data transfer speed rate of 3Gbps, 6Gbps and 12Gbps. Please contact your local Amphenol representative for details

Electrical Data

- Current:1.5A per pin
- Dielectric strength: 500 VAC for 1 minute min
- Insulation resistance: 1,000 mega ohm min
- LLCR: 30 million ohm max (initial)
- Data rate: 12Gbps

Mechanical Data

- Material:
  o Housing: High temperature thermoplastic, UL 94V-0
  o Contact: Copper Alloy
  o Solder Tab/Solder blade: Copper Alloy
- Contact Plating:: Au/Ni on mating area and Si/Ni on soldeirng area
- Insertion Force: 40N Max
- Withdrawal Force: 2.5N Min

Environmental Data

- Operating temperature :0℃~+55℃
- Storage temperature: -40℃~+85℃
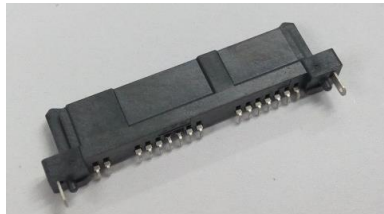

Typical 12G Micro SAS Connector

12G Micro SAS Straddle Plug
P/N:MSAS3M210021

12G Micro SAS V/T SMT Socket
P/N:MSAS3F313003XXX

12G Micro SAS V/T SMT Socket
P/N:MSAS3F313005XXX

12G Micro SAS V/T SMT Socket
P/N:MSAS3F313006XXX

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