

## 3M Adds Three New Products to SAS Interconnect Product Line

The family of 3M brand Serial Attached SCSI (SAS) interconnects has expanded to include three additional products: a vertical through-hole receptacle with 29 positions; a hybrid receptacle with 29 positions, including surface mount signal leads and through-hole power tails; and a special 22-position SAS host receptacle, which was designed without a secondary signal port to eliminate unnecessary or unused contacts. The ROHS compliant(a) family of 3M brand Serial Attached SCSI (SAS) interconnects is available immediately from the 3M Electronic Solutions Division.

The connectors with 29-position pins feature combination signal and power connectors and have data transfer rates of up to 3.0 Gb/s in full duplex mode. The new connectors are an improvement over the currently used Ultra 320, which needs an 80-pin connector to support the data rate of 320 Mb/sec in half duplex mode, a speed not able to support the demand of faster data rate for servers (RAID/BLADE) in the enterprise computing market.

Used in enterprise network storage applications with high data transmission rates, such as storage area networks (SAN), redundant array of inexpensive disks (RAID), direct attach storage (DAS) and network attached storage (NAS), the new 3M Serial Attached SCSI (SAS) Connectors are designed on a 1.27 mm (.050") in-line contact pitch and is backward compatible to existing SCSI. Because the signal transmission is serialized through two differential pairs, the overall connector size is much smaller compared to previous SCSI connectors. The 29-pin 3M Serial Attached SCSI (SAS) interconnects (both plug and receptacle) have been defined in the standard SFF 8482.

3M Serial Attached SCSI (SAS) Connectors are recognized in three interface segments. The first segment is the primary signal portion, which appears in a seven-contact format. Two pairs serve as the transmit (Tx) and receive (Rx) contacts, while three grounds also function as the EMLB contacts, making the 3M Serial Attached SCSI (SAS) Connector hot pluggable.

The second interface recognized in the 3M SAS Connector is the 15-contact power segment. The segment accommodates three primary voltage ranges (3.3 V, 5 V and 12 V). Each voltage is allocated three contacts for standard power: positive (+), negative (-) and ground (G), leaving six additional contacts. Five of them are used for GROUND and one for READY LED.

The third segment is the secondary signal port, which provides a redundant path for each drive and is desirable to have in the event of controller failover. Like the primary signal portion, it has seven pins, but the pitch differs: 0.8 mm (0.032") compared to the primary signal segment's 1.27 mm (0.05") pitch. As it is redundant, two pairs serve as the transmit (Tx) and receive (Rx) contacts, while three grounds also function as the EMLB contacts, also making it hot pluggable.

All connectors are all matte tin terminal with 30 micron gold plating at the interface. Standard lead time is 28 days after receipt of order. For more information, go to <http://www.3m.com/electronics> or <http://www.3m.com/interconnect>.

About 3M Electronic Solutions Division

The 3M Electronic Solutions Division, headquartered in Austin, Texas, has numerous technologies and provides a wide range of products for the electronics market. It provides products and solutions to meet the electronic

industry's challenges of protecting sensitive components and precisely delivering them to the assembly point, as well as flexible circuits, embedded capacitance laminate materials, copper interconnect systems; cables and cable assemblies; static control products, and Textool brand test and burn-in sockets.

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*(a) "RoHS Compliant 2005/95/EC" means that the product or part ("Product") does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under EU RoHS. This information represents 3M's knowledge and belief, which may be based in whole or in part on information provided by third party suppliers to 3M.*

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