With the versatility of an edge card connector, the HBMT™ MT High Density Backplane provides a smooth transition from pc board components to the backplane. Utilizing a standard MT ferrule as the optical interface, the HBMT provides up to 96-fiber interconnects. It is ideal for connecting backplanes and cross connect systems in computing equipment, telecommunication equipment including transmitters, switches, multiplexers and demultiplexers. Together with Molex’s FlexPlane Optical Flex Circuitry System, the HBMT provides a total optical backplane solution.

The Molex HBMT features a blind-mate interface for easy insertion and removal of the daughtercard without disrupting the input/output ports or associated cabling. It is designed to meet the requirements of Telcordia GR-1435-CORE. This backplane system has a low-profile 6.00mm (.236”) backplane fiber and a 14.80mm (.583”) maximum height, ensuring compatibility with 20.00mm (.787”) card spacing and European ETSI rack standards.

The HBMT uses a single housing that can contain up to four MT ferrules and can be configured for either multimode or single mode ribbon fiber. The system also supports the MT low loss and 24-fiber MT ferrule technology, offering improved performance and density. The RJ-45 mechanical latching provides easy insertion of individual terminated MT ferrules. A patented dual shutter design offers dust and eye safety protection.

Features and Benefits

- Patented dual shutter design for dust and eye safety protection
- Singlemode and multimode compatible
- Telcordia GR-1435-core compliant
- Generous mechanical float in the X, Y and Z axis
- Compatible with optical flex circuit technology
- Utilizes standard MT ferrule as the optical interface

Applications

- High density blind mate interconnect for data and telecommunication systems
- Total optical backplane solution when used with Molex’s FlexPlane optical flex circuit

Order Information*

<table>
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<tr>
<th>Order No.</th>
<th>Type</th>
<th>Description</th>
<th>Mates With</th>
<th>Mating Type</th>
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<td>HBMT connector</td>
<td>HBMT daughtercard connector housing, screw mount</td>
<td>106105-1000</td>
<td>Adapter</td>
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<tr>
<td>106105-2100</td>
<td>HBMT connector</td>
<td>HBMT daughtercard connector housing, screw mount, floating</td>
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<td>HBMT motherboard adapter housing, screw mount, floating</td>
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</tbody>
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*The HBMT daughtercard and backplane clips are only sold as part of a cable assembly.

www.molex.com/fiber/hbmt.html