Rosenberger

System for Data Transmission up to 20 Gbps

H-MTD®
High-Speed Modular Twisted-Pair Data

AUTOMOTIVE
Rosenberger H-MTD® is a fully 360° shielded differential connector system. The new developed system combines high-performance data transmission up to 15 GHz or 20 Gbps and a small package size in a robust automotive grade housing. A big advantage is the modularity of the system which provides a wide range of applications.

Protocols
- Automotive ethernet
  - 100BASE-T1
  - 1000BASE-T1
  - Multi-Gigabit (up to 10 Gbps)
- SERDES
  - APIX 3
  - FPD Link 4
  - GMSL 2
  - MIPI
- PCIe 4.0
- USB 3.1 Gen 2
- HDBase-T

Applications
- Camera systems 4K
- Autonomous driving
- Radar
- Lidar
- High-resolution displays 4K
- Rear seat entertainment
Product Features

- Automotive graded differential connector according LV 214 / USCAR
- Modular packages: standard connector with single, double or quad housings
- High frequency range H-MTD® Interface up to 15 GHz / 20 Gbps
- Watertight versions
- CPA Versions
- Two shielding versions: STP – full 360° shielding and UTP – unshielded version possible
- Realize smallest package combined with high robustness requirements

Possible Cable Types

- STP – Shielded Twisted Pair cable
- UTP – Unshielded Twisted Pair cable
- SPP – Shielded Parallel Pair cable
H-MTD® PCB Connectors

<table>
<thead>
<tr>
<th>Rosenberger No.</th>
<th>Connector Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>E6S20A-40MT5-y*</td>
<td>PCB plug right angle single</td>
</tr>
<tr>
<td>E6S20B-40MT5-y*</td>
<td>PCB plug right angle double</td>
</tr>
<tr>
<td>E6S20D-40MT5-y*</td>
<td>PCB plug right angle quad</td>
</tr>
</tbody>
</table>

* on request
y: please fill-in requested coding
Further customized products on request
### H-MTD® Cable Connectors

<table>
<thead>
<tr>
<th>Rosenberger No.</th>
<th>Connector Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>E6K10A-1CAZ5-y*</td>
<td>Cable jack straight single</td>
</tr>
<tr>
<td>E6K10B-1CAZ5-y*</td>
<td>Cable jack straight double</td>
</tr>
<tr>
<td>E6K10D-1CAZ5-y*</td>
<td>Cable jack straight quad</td>
</tr>
<tr>
<td>E6K14A-1CAZ5-y*</td>
<td>Cable jack straight single waterproof</td>
</tr>
<tr>
<td>E6S10A-1CAZ5-y*</td>
<td>Cable plug straight single</td>
</tr>
</tbody>
</table>

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Website
For more information refer to our website: www.rosenberger.com/h-mtd

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