D8HS is an n x 56/64 kbps data module that provides eight synchronous high-speed data channels. The module is supported by DXC systems with DCL.3 common logic, from version 9.0 and onwards.

Each synchronous data channel operates at data rates of \( n \times 56 \) or \( n \times 64 \) kbps (where \( n = 1 \) to 24 for T1 and 1 to 32 for E1 links). Channel data rates and all operating parameters are software selectable.

Timeslots used on the E1 or T1 link can be user-assigned or automatically selected. An external clock can be selected as the source for system timing. Connection to national digital lines (such as DDS or Kilostream) is supported.

Each channel recognizes four control signals locally.

Powerful testing capabilities and self-diagnostics upon power-up reduce downtime to a minimum.

D8HS is supplied with a 200-pin high-density connector. To convert to the following interfaces, splitter cables are available from RAD (see Ordering):

\[ 8 \times \text{RS}-422, 8 \times \text{V.35}, 8 \times \text{X.21}, 8 \times \text{RS}-232. \]

To provide buffered retiming of the received data, the user can select timing modes to configure each channel as DCE, DTE1 and DTE2.

Interface selection is software controlled.

The D8HS module occupies one I/O slot in a DXC-8R, DXC-10A or DXC-30 chassis.

Order from: Cutter Networks
Ph: 727-398-5252 / Fax: 727-397-9610

www.bestdatasource.com
**Specifications**

**Channels per Module**
8

**Interface and Connectors**
Via splitter cables:
- 8 × RS-422
- 8 × RS-232
- 8 × V.35
- 8 × X.21

**Clock Modes**

**DCE:** Transmit and Receive clocks to synchronous DTE device (for RS-422, V.35, X.21 and RS-232)

**DTE1:** External Transmit clock from synchronous DTE device, and Receive clock to synchronous DTE device (for RS-422, V.35)

**DTE2:** External Transmit and Receive clocks from synchronous DTE device (for RS-422 only)

**Data Rates**
Synchronous $n \times 56$ kbps or $n \times 64$ kbps
For T1: $n = 1$ to 24
For E1: $n = 1$ to 32

**Control Signals**
CTS follows RTS or is constantly ON, software selectable
DSR ON, unless in Test mode
DCD constantly ON, unless in RED ALARM

**Diagnostics**
Local loopback
Remote loopback
Internal BERT
Auto self-test

**Configuration**
Programmable through the DXC management system

**Power Consumption**
9.3W

**Physical**
Occupies a single slot in a DXC-8R, DXC-10A or DXC-30 chassis
For comparison of DXC chassis, see Table 1. For the list of DXC I/O modules, refer to the DXC-8R/10A/30 data sheet.

---

**Table 1. DXC Chassis Comparison Table**

<table>
<thead>
<tr>
<th>Feature</th>
<th>DXC-8R</th>
<th>DXC-10A</th>
<th>DXC-30</th>
<th>DXC-100*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>1U</td>
<td>1U</td>
<td>3U</td>
<td>6U per nest</td>
</tr>
<tr>
<td>Maximum number of ports</td>
<td>32</td>
<td>40</td>
<td>120</td>
<td>688 (8 nests)</td>
</tr>
<tr>
<td>Number of I/O slots</td>
<td>4</td>
<td>5</td>
<td>15</td>
<td>86 (8 nests)</td>
</tr>
<tr>
<td>System redundancy</td>
<td>Built-in</td>
<td>None</td>
<td>Optional</td>
<td>Optional</td>
</tr>
<tr>
<td>E1, T1, E3, T3, STM-1 modules</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>XDSL, inverse multiplexing modules</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>–</td>
</tr>
<tr>
<td>n x 56/64 kbps modules</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Router, OC-3 modules</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>✓</td>
</tr>
<tr>
<td>ASCII, SNMP, RADview management</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

*The DXC-8R/10A/30 modules and DXC-100 modules are not interchangeable.*
Figure 1. Transferring High Speed Data over Multiple E1/T1 Lines
D8HS
8-Channel High-Speed Data Module

Ordering

DXC-M-8HS

OPTIONAL ACCESSORIES

CBL-D8HS-RS530
Splitter cable to convert the 200-pin D8HS connector to eight DB-25 RS-422 and RS-232 connectors

CBL-D8HS-V35/M
Splitter cable to convert the 200-pin D8HS connector to eight 34-pin male V.35 connectors

CBL-D8HS-V35/F
Splitter cable to convert the 200-pin D8HS connector to eight 34-pin female V.35 connectors

CBL-D8HS-X21
Splitter cable to convert the 200-pin D8HS connector to eight DB-15 X.21 connectors

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