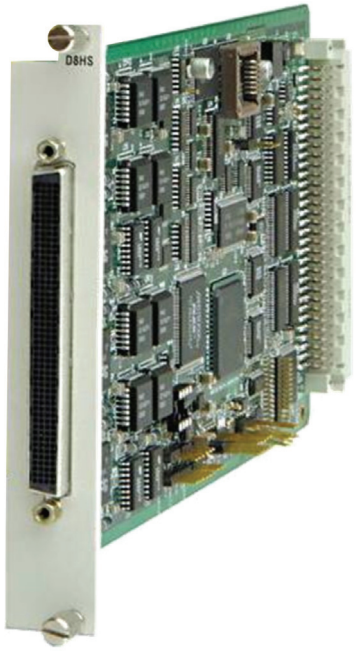
Data Sheet

DXC Module

D8HS

8-Channel High-Speed Data Module



- Eight high-speed data channels
- RS-422, RS-232, V.35, or X.21 serial interfaces on any channel
- Programmable data rates: 56 to 1536 kbps for T1 and 64 to 2048 kbps for E1
- User-assigned or automatically selected timeslots on the E1 or T1 links
- Timeslots cross-connect with any other DXC-8R/10A/30 module

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 × 56 or n × 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 × RS-422, 8 × V.35, 8 × X.21,
8 × 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.

Eight high-speed synchronous data channels for the DXC family of modular cross-connects

RAD
data communications
The Access Company

D8HS
8-Channel High-Speed Data Module

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 × 56 kbps or n × 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

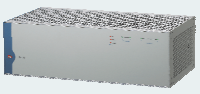
Configuration
Programmable through the DXC management system

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

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

**The DXC-8R/10A/30 modules and DXC-100 modules are not interchangeable.*

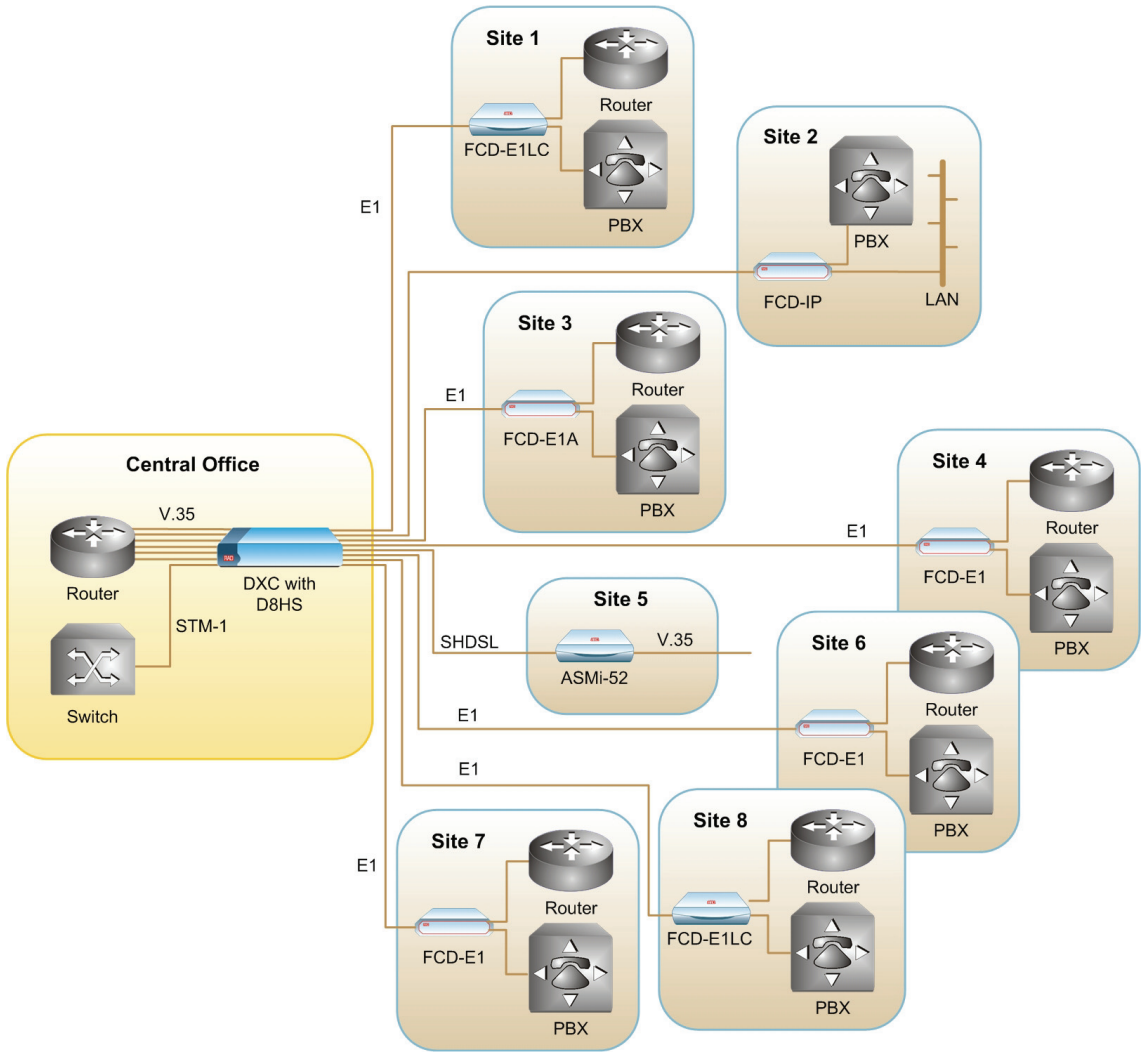


Figure 1. Transferring High Speed Data over Multiple E1/T1 Lines

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

International Headquarters
24 Raoul Wallenberg Street
Tel Aviv 69719, Israel
Tel. 972-3-6458181
Fax 972-3-6498250, 6474436
E-mail market@rad.com

North America Headquarters
900 Corporate Drive
Mahwah, NJ 07430, USA
Tel. 201-5291100
Toll free 1-800-4447234
Fax 201-5295777
E-mail market@radusa.com

www.rad.com

Order this publication by Catalog No. 803527

RAD data communications
The Access Company