

DXC Module D8HS

8-Channel High-Speed Data Module



- Eight high-speed data channels
- RS-442, 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
- Cross-connects timeslots with any other DXC-8R/10A/30/30E module

Each D8HS module provides the DXC chassis with eight 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 supports 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.

To provide buffered retiming of the received data, the user can select timing modes to configure each channel as either DCE or DTE1/DTE2. An external clock can be selected as the source for system timing. Connection to national digital lines (such as DDS or Kilostream) is supported.

Local support is provided for four control signals for each channel.

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*):
 $8 \times$ RS-442, $8 \times$ V.35, $8 \times$ X.21,
 $8 \times$ RS-232.

Interface selection is software controlled.

The 3U-high version of the D8HS module occupies one I/O slot in a DXC-8R, DXC-10A, or DXC-30 chassis. The 6U-high version occupies one slot in a DXC-30E chassis.

8-channel, high-speed
data transmission
for the DXC family
of modular
cross-connects



D8HS

8-Channel High-Speed Data Module

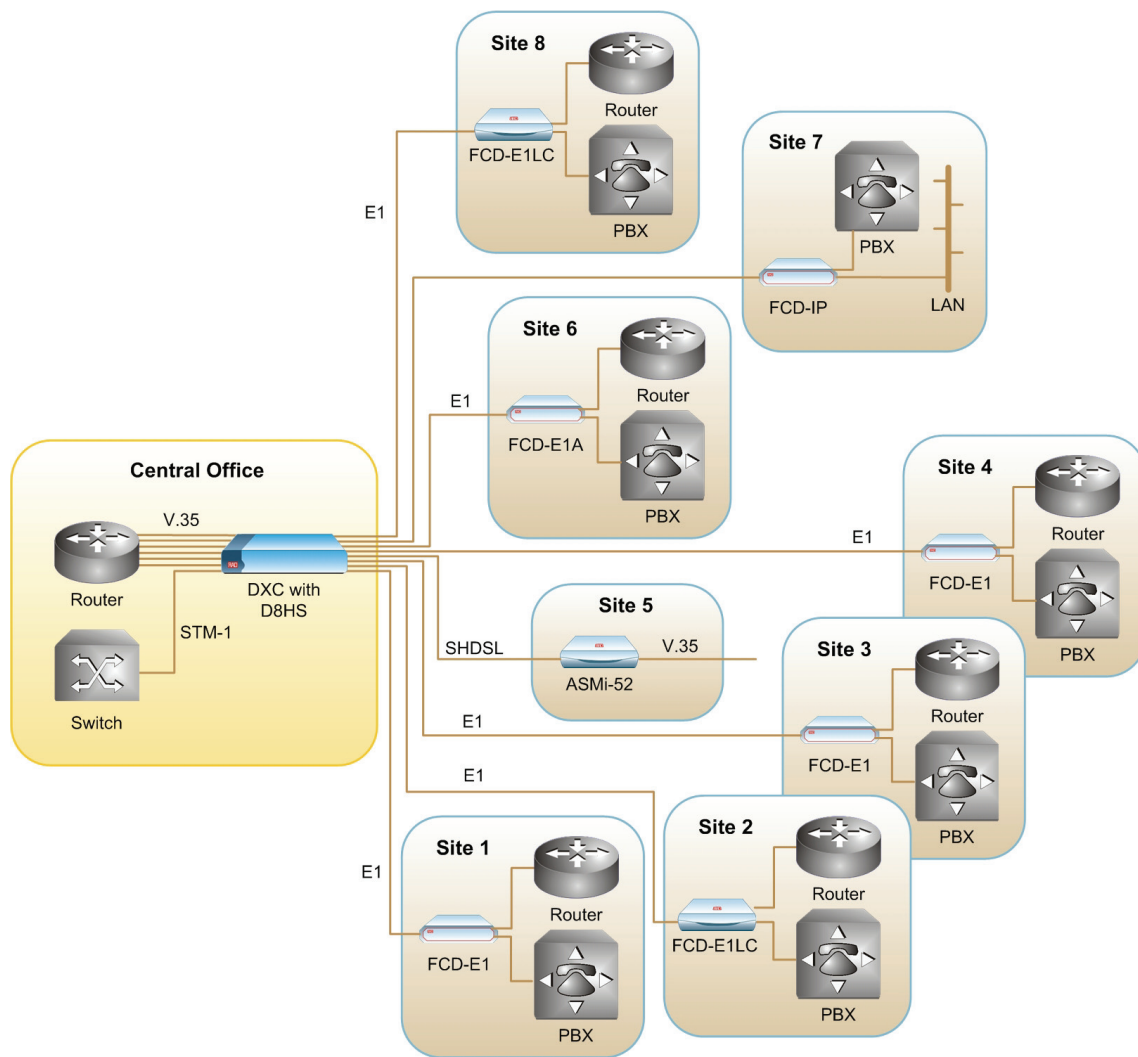


Figure 1. Utilizing Multiple E1/T1 Lines for High-Speed Data Transfer

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

DTE1: Transmit clock from synchronous device and Receive clock to synchronous device

DTE2: Transmit and Receive clocks from synchronous DCE (only for option RS-422)

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, DXC-30, or DXC-30E chassis

Table 2. DXC Family Comparison Table

Features	DXC-8R	DXC-10A	DXC-30/30E	DXC-100
Height	1U	1U	3U/6U	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	✓	✓	✓	-
$n \times 56/64$ kbps modules	✓	✓	✓	✓
Router, OC-3 modules	-	-	-	✓
ASCII, SNMP, RADview management	✓	✓	✓	✓

* Maximum possible ports are 240 with the ISDN option only.

D8HS

8-Channel High-Speed Data Module

Ordering

DXC-M-8HS

8-Channel High-Speed Data Module,
3U-high version for DXC-8R,
DXC-10A, or DXC-30

DXC-ME-8HS

8-Channel High-Speed Data Module,
6U-high version for DXC-30E

OPTIONAL ACCESSORIES

CBL-D8HS-RS530

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

CBL-D8HS-DB-25

Splitter cable to convert the
200-pin D8HS connector to
eight DB-25 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



data communications

Innovative Access Solutions