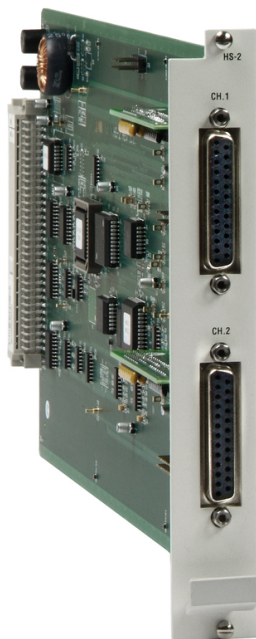


Megaplex-2100/2104 Module

HS-2

2-Channel High Speed Data Module



- Programmable data rates up to 1,984 kbps in any multiple of 64 or 56 kbps
- Channels can be directed to any main link
- User-selectable V.35 or V.11/RS-422 interface for each channel
- DCE, EXT-DCE, or DTE clock modes
- Separate DB-25 connector for each channel

The HS-2 module features two high speed synchronous data channels. Each channel is independently set by the user for either V.35 or V.11/RS-422 interface (electrical). The V.11/RS-422 selection is used for RS-530, V.36/RS-449, or X.21 interface (physical) operation.

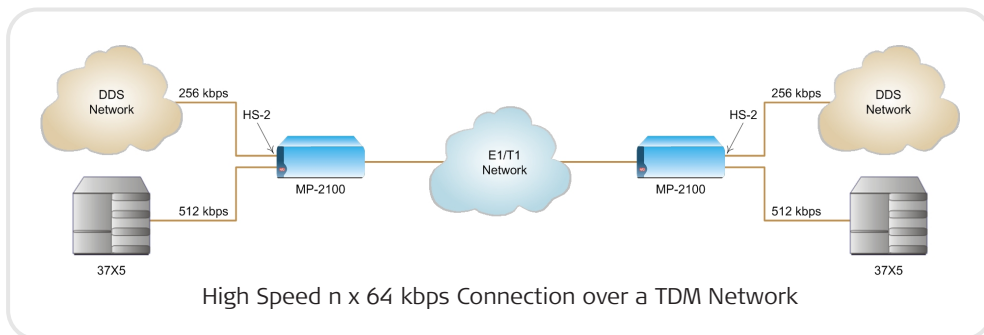
Each channel operates at data rates of $n \times 64$ or $n \times 56$ kbps, where $n = 1$ to 31 for E1 links, and 1 to 24 for T1 links. Total combined bandwidth for both channels is up to 1,984 kbps for E1 links or 1,536 kbps for T1 links.

Each channel of the local module may be directed to any channel of another HS module at the remote site. The timeslots used on the T1 or E1 links are assigned by the user.

Any channel can be independently configured for DCE, External-DCE or DTE timing modes. The External-DCE mode is used for tail-end applications: it provides Rx clock, while receiving Tx clock from the user equipment.

Each high speed data channel terminates on a separate DB-25 connector. Pin assignment is compatible with RS-530 specifications. Special adapter cables are used to connect each HS-2 channel to standard V.35, V.36/RS-449, or X.21 equipment (see Ordering). The adapter cables are wired according to the required clock mode.

Two high speed synchronous data channels



HS-2

2-Channel High Speed Data Module

Local support of CTS, RTS, DCD and DSR control signals for each channel is provided.

Extensive diagnostics, including local and remote channel loopbacks, as well as an integral BER test, reduce downtime to a minimum.

Channel data rates and all other operating parameters of HS-2 are soft-selectable through the Megaplex management system.

Specifications

Number of Data Channels

2

Data Rate per Channel

Synchronous,
 $n \times 64$ or $n \times 56$ kbps, where:
 for E1: $n=1$ to 31
 for T1: $n=1$ to 24

Interface (Electrical)

User-selectable for each channel: V.35 or V.11/RS-422

Interface (Physical)

V.35, V.36/RS-449, or X.21 (via conversion cables)

Connectors

Two DB-25, female (one for each channel)

Clock Modes

DCE: HS-2 channel provides both RX and TX clocks to the user DTE

External DCE (DTE1, used for tail-end applications): HS-2 channel provides RX clock to the user while receiving TX clock from the user

DTE (DTE2): HS-2 channel receives both RX and TX clocks from the user DCE

Control Signals

CTS follows RTS or is constantly ON, soft-selectable

DCD constantly ON, unless in RED ALARM (one DCD signal for all four channels)

DSR constantly ON when channel is connected, unless engaged in test

Diagnostics (per channel)

Local loopback
 Remote loopback
 Internal BERT (different patterns available)

Configuration

Programmable via the Megaplex management system

Ordering

MP-2100M-HS-2

OPTIONAL ACCESSORIES

CBL-HS2/*/#

Adapter cable connecting the HS-2's DB-25 channel connectors to the specified equipment (separate cable is needed for each connector). The cable must be chosen to match the desired clock mode. Cable length is 2m (6ft)

Legend

* Interface type:

V1	V.35, 34-pin, DCE
V2	V.35, 34-pin, Ext-DCE
V3	V.35, 34-pin, DTE
R1	V.36/RS-499, 37-pin, DCE
R2	V.36/RS-499, 37-pin, Ext.DCE
R3	V.36/RS-499, 37-pin, DTE
X1	X.21, 15-pin, DCE
X2	X.21, 15-pin, Ext. DCE

Cable connector type:

F	female
M	male

Megaplex High Speed Modules

Feature	HS-2	HS-Q/N	HS-6N/12N	HS-U	HS-703	HS-S	HSF-1, HSF-2
Interface Type	V.24/RS-232, V.35, X.21 or V.11/RS-422	V.24/RS-232, V.35, X.21 or V.11/RS-422	V.24/RS-232, V.35, X.21 or V.11/RS-422	ISDN "U"	G.703	ISDN "S"	IEEE C37.94 Fiber optic
Number of Channels	2	4	6/12	4/6/12	4	4	1/2
Number of Connectors	2	4	2/4	4	4	4	1/2
Data Rate	$n \times 64$ kbps $n \times 56$ kbps	$n \times 64$ kbps $n \times 56$ kbps	$n \times 64$ kbps	128 kbps	64 kbps	128 kbps	up to 10x64 kbps
Supported by MP-4100	-	-	✓	HS-U-6, HS-U-12	✓	✓	HSF-2

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



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