KILOMUX-2000 I/O Module

KHS.1 - 2 Channel High Speed Data Module

RAD

FEATURES

- Provides two synchronous high speed data

- Selectable data rates: 32, 48, 56, 64, 128, 192, 256 or 384 kbps

- Selectable interface: V.35, RS-530, V.36/V.11, RS-449/RS-422 or X.21

- DCE, DTE1 or DTE2 clocking options

- Independent parameter selection for each channel

- End-to-end control signal transfer

- Enhanced diagnostics

DESCRIPTION

- The KHS.1 is a high speed data module providing two high speed synchronous data channels for the Kilomux-2000. Parameters can be programmed independently for each channel. Each channel can be configured for either V.35, RS-530, V.36/V.11, RS-449/RS-422, or X.21 operation.

- The data rate on each channel can be selected for 32, 48, 56, 64, 128, 192, 256 or 384 kbps.

- Programmable timing modes and built-in elastic buffers permit connection to all types of digital lines, including digital data services, ensuring data integrity.

- One control signal per channel may be transmitted end-to-end for handshaking purposes. Typical end-to-end delay is 2.5 msec.

- Comprehensive diagnostic capabilities reduce downtime to a minimum. Diagnostics include V.54 loopbacks, initiated via connector pins or by the user, and built in BERT test initiated by the user. Automatic self-test is performed during power-up and normal operation.

- Each channel terminates on a 25-pin D-type, female connector. Pin-out assignment is according to EIA RS-530 specifications. Local support of four control signals is provided. For connection to V.35, V.36/V.11, RS-449/RS-422, or X.21 equipment, special cables are available (see Ordering).

SPECIFICATIONS

- **Number of Channels**
  Two, synchronous
- **Interface**
  V.35, RS-530, V.36/V.11,
  RS-449/RS-422 or X.21
- **Connectors**
  Two 25-pin D-type, female
  Cables are available for
  connection to V.35, RS-449, V.36
  or X.21 physical connectors
- **Pin Assignment**
  Per EIA RS-530
- **Data Rates**
  Selectable 32, 48, 56, 64, 128,
  192, 256 or 384 kbps
- **Data Clamp**
  Mark hold on Out of Sync
- **Bandwidth Allocation**
  on Main Link
  Selectable, according to the
  programmed channel data rate
- **Control Signals**
  Local support:
    RTS-CTS delay soft controlled,
    DSR, DCD
  End-to-end, selectable per
  channel:
    RTS-DCD; 2.5 msec typical
    delay
- **Clock Options**
  DCE, DTE1, DTE2

- **Diagnostics**
  Independent for each channel
  Soft controlled:
    Local loopback
    Remote loopback
    Built in BERT test
  Connector Pin Control:
    Local loopback (V.54 Loop 3)
    Remote loopback (V.54 Loop 2)
  Auto self-test upon power-up and
  during normal operation
- **Indicators**
  For selected channel: TX, RX,
  RTS and DCD on Kilomux-2000
  front panel
  For X.21 interface: Control and
  Indication replace RTS and DCD
- **Configuration**
  Programmable via front panel,
  terminal interface or Network
  Management System

ORDERING

KM-2000M-KHS.1
2-Channel High Speed Data Module

Cables

The following cables convert the
25-pin channel connector into the
respective interface. Cable length is
6 ft (2 meters), unless otherwise
indicated.

CBL-HS2V1
Connects one KHS.1 channel in DCE
mode to a V.35 DTE

CBL-HS2V2
Connects one KHS.1 channel in
External-DCE mode to a V.35 DCE

CBL-HS2V3
Connects one KHS.1 channel in DTE
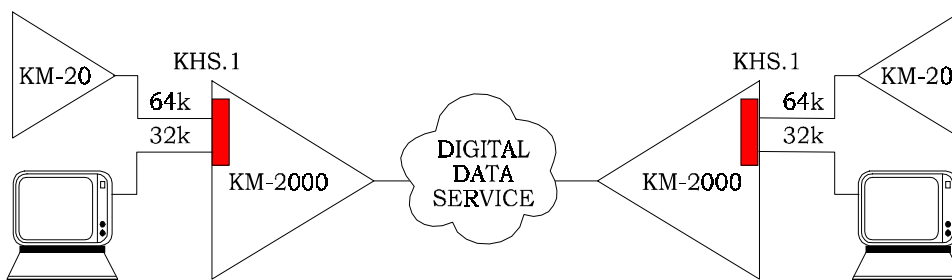mode to a V.35 DCE

CBL-HS2R1
Connects one KHS.1 channel in DCE
mode to an RS-449 (V.36) DTE

CBL-HS2R2
Connects one KHS.1 channel in
External DCE mode to an RS-449
(V.36) DCE

CBL-HS2R3
Connects one KHS.1 channel in DTE
mode to an RS-449 (V.36) DCE

CBL-HS2/X/1
Connects one KHS.1 channel to an
X.21 DTE (30 cm/1 ft. long)

APPLICATION

Specifications are subject to change without prior
notification

RAD

data communications

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