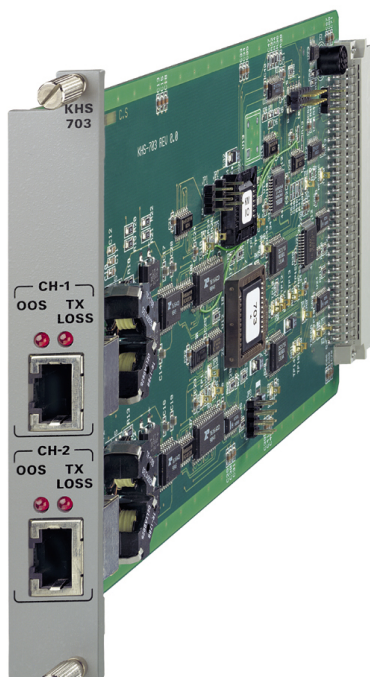Kilomux-2100/2104

KHS.703

2-Channel G.703 Codirectional Data Module

- Two 64 kbps G.703, codirectional data channels
- Two timing modes
- Enhanced diagnostics
- Parameter settings via Management System

The KHS.703 module provides Kilomux with two 64 kbps G.703 codirectional data channels. Each channel can be either independently active or non-active.

Any channel of the KHS.703 module may be directed to any channel of another KHS.703 module at the remote site.

KHS.703 supports two receive clocking modes:

External clock
Nodal timing is locked to the receive pair timing of one of the KHS.703 channels. This locks the Kilomux timing to the external 64 kbps G.703 channel.

Internal clock
G.703 timing source is locked to the nodal timing.

Comprehensive self-test initiated upon power-on and extensive diagnostics reduce downtime to a minimum.

Separate LED indicators show loss of signal (TX LOSS) and loss of octet timing (OOS).

The physical interface is via a separate RJ-45 connector for each channel.

Channel operating rate is software selectable via the Management System.

Provides Kilomux with two 64 kbps G.703 codirectional data channels
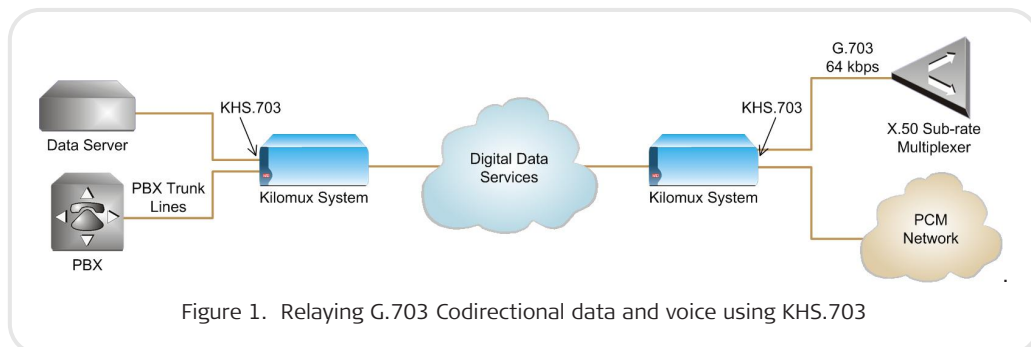

Figure 1. Relaying G.703 Codirectional data and voice using KHS.703

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KHS.703
2-Channel G.703 Codirectional Data Module

Specifications

Number of Data Channels
2

Data Rate per Channel
64 kbps

Interface
Codirectional, per G.703

Connectors
RJ-45 (one for each channel)

Transmit Pair Timing (RX-OUT)
Locked to nodal timing

Diagnostics
Local loopback towards G.703 equipment
Remote loopback:
Built in BERT

Receive Pair Timing (TX-IN)
Internal: Locked to Kilomux-2100 nodal timing

External: Kilomux-2100 nodal timing is locked to the external G.703 timing source of one of the KHS.703 channels

LED Indicators
Per channel:
 TX-LOSS Loss of Signal
 OOS Loss of Octet Timing

Configuration
Programmable via the Management System

Ordering

KM-2100M-KHS.703

Table 1. Kilomux-2100/2104 Data Modules

	KHS.1	KHS.2	KHS.U	KHS.703	KLS.2	KLS.1/N
No. of Channels	2	2	1	2	4	2
Interface	V.35, RS-530, V.36/RS-449 or X.21	V.35, RS-530, V.36/RS-449 or X.21, V.24/RS-232	ISDN "U"	Codirectional, per G.703	V.24/RS-232	V.24/RS-232, Sync or Async
Connector	Two 25-pin D-type, female	Two 25-pin D-type, female	RJ-45	RJ-45	Four RJ-45 connectors	Two 25-pin D-type, female
Data Rates	32, 48, 56, 64, 128, 192, 256 or 384 kbps*	2.4 kbps to 614.4 kbps*	Per B Channel 16, 32 and 64 kbps Per D Channel 16 kbps	64 kbps	300 bps to 19.2 kbps async. (statistically multiplexed)	Group 1: 300 bps to 38.4 kbps, sync and async, Group 2: 7.2, 14.4, 28.8, 57.6 kbps, sync and async, Group 3: 8, 16, 24, 32, 48, 56, 64 kbps, sync

Note: The supported channel data rates specified in Table 1 are dependent on the main link rates employed. To view limitations please refer to Specifications in the relevant module data sheets.

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