



# KILOMUX-2000/2004

## KML.6 - Main Link CSU/DSU Interface

### FEATURES

- Built-in CSU/DSU
- Connects the Kilomux-2000/2004 to a Standard-DDS service
- Integral short range modem over two twisted pairs, for campus environment
- Supports synchronous operation at data rates of 9.6, 19.2 and 56 kbps
- Meets AT&T PUB 62310 requirements
- Range up to 6.5 miles (10.5 km)

### DESCRIPTION

- The KML.6 Main Link CSU/DSU Interface, connects the Kilomux-2000/2004 directly to a Standard DDS service. It supports link data rates of 9.6, 19.2 and 56 kbps.
- Alternatively, the CSU/DSU interface can be used for local, campus applications. The built-in short range modem supports distances of up to 6.5 miles (10.5 km).
- The KML.6 main link interface is compatible with AT&T PUB 62310: Standard Digital Data Service, Channel Interface specifications. The mandatory CSU and non-latching DSU loopbacks are fully supported, allowing diagnostic and technical support by the service suppliers.
- Alarms detected during operation are stored in an alarms buffer. The buffer can store the following alarm types: loss of signal, out of service, out of frame, idle sequence, DSU and CSU loopbacks. The alarm LED on the panel indicates an alarm event.



- The Interface transmit timing can either be locked to receive timing or locked to the internal oscillator.
- The Interface may be installed in a Kilomux-2000/2004 as either a single main link or together with another main link module, where applications require full redundancy or dual links.
- Line connection is via an 8-pin RJ-48 connector.

# SPECIFICATIONS

## Interface

Compatible with AT&T PUB 62310: Standard Digital Data Services (DDS), Channel Interface specifications

## Connector

RJ-48 (8-pin)

## Data Rates

9.6, 19.2 and 56 kbps

## Timing

Receive:  
- Recovered from line signal  
Transmit:  
- Locked to receive timing  
- Internal oscillator

## Attenuation

Up to 43 dB

## Range (AWG 24, 0.6 mm)

9.6 kbps: 6.5 miles/10.5 km  
19.2 kbps: 5 miles/8 km  
56 kbps: 4 miles/6.5 km

## Transmit BPV sequence:

Zero suppression

## Receive BPV sequence:

Out of service (OOS)  
Out of frame (OOF)  
DSU loopback

## Diagnostics

CSU loopback (mandatory):  
reversing polarity of sealing loop current, implements loopback in LIU  
DSU loopback (non-latching):  
per AT&T PUB 62310

## Surge Protection

Per CCITT Rec. K.17, FCC 68

## Alarms

Loss of signal  
Out of service  
Out of frame  
Idle sequence  
DSU and CSU loopback

## Status Indicators (module panel)

TEST: CSU or DSU loopback  
ALARM: OOS or OOF code  
LOS: Loss of signal

## Configuration

Programmable via Kilomux-2000/2004 front panel or by terminal connected to the supervisory port.

# ORDERING

## KM-2000M-KML.6

Main Link CSU/DSU Interface

# APPLICATIONS

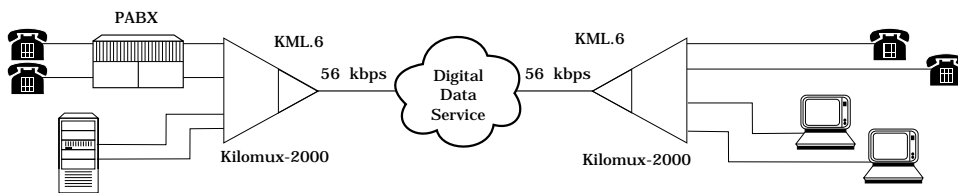


Figure 1- Application over DDS

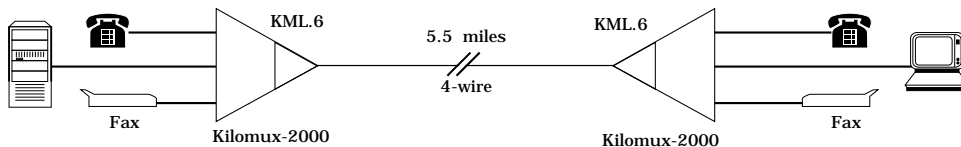


Figure 2 - Local Application

Specifications are subject to change without prior notification



data communications

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