



CMN-16 Module

CMN-CEB Elastic Buffer/V.24

FEATURES

- DCE to DCE connection
- Two internal 512-bit buffers
- Data rates up to 64 kbps
- Full Duplex Transmission
- RS-232-C/V.24 interface

DESCRIPTION

■ The CMN-CEB enables two independently clocked DCEs to exchange data, when their frequency difference would otherwise result in data loss. The CMN-CEB compensates for the clock difference by buffering the data.

■ The CMN-CEB utilizes two 512-bit buffers providing bi-directional compensation. Upon overflow or underflow of the buffers the unit automatically restarts the buffers at the middle.

■ Figure 1 shows the flow of data as it is clocked in and out of each buffer:

RC (Receive Clock) of DCE "A" clocks RD (Receive Data) into buffer A.

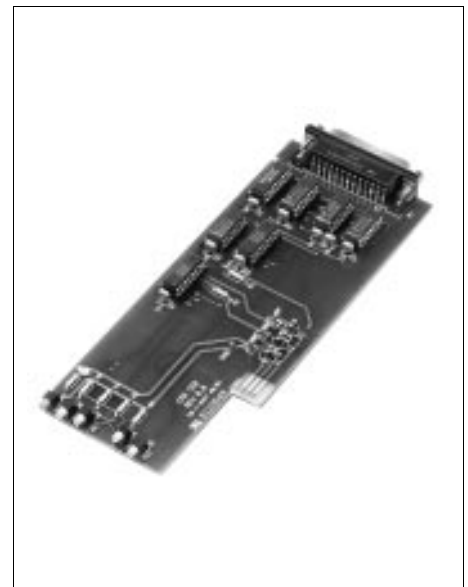
TC (Transmit Clock) of DCE "B" clocks TD (Transmit Data) out of buffer A.

RC (Receive Clock) of DCE "B", clocks RD (Receive Data) into buffer B.

TC (Transmit Clock) of DCE "A" clocks TD (Transmit Data) out of buffer B.

Note: Care should be taken when designing applications in which the data and control signals must have the same delay. The CMN-CEB delays the data, while the control signals are simply wired through (see Figure 1).

■ The CMN-CEB uses one DB-25 connector for both DCEs. A CD cable (Channel Doubler) should be used to connect the card to the two DCEs.



SPECIFICATIONS

Transmit Format

Synchronous, transparent to protocol

Transmission Mode

Full duplex

Data Rates

Up to 64 kbps

DCE to DCE Buffering

Buffer A and buffer B, full duplex:
512-bit buffers, set to center in case of overflow or underflow

Interface

RS-232-C/V.24

Connector

One DB-25 female
Connection to the DCEs is by Channel Doubler cable

Indicators

Power	PWR
DCE A	
Transmit data	XMT
Receive data	RCV
DCE B	
Transmit data	XMT
Receive data	RCV

Power

0.3 watts, derived from CMN-16 power supply

Physical

Length:	177 mm / 6.96 in
Width:	67 mm / 2.64 in
Height:	15 mm / 0.59 in
Weight:	67 g / 2.4 oz

Environment

Temperature:	0-50°C/32-122°F
Humidity:	Up to 90% non-condensing

ORDERING

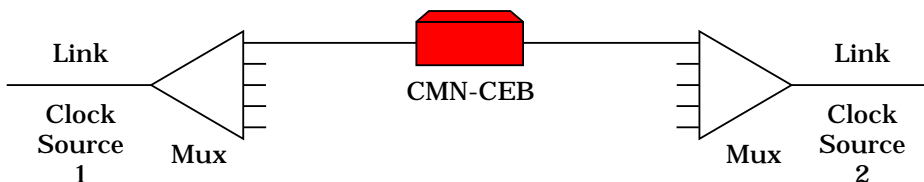
CMN-CEB

Elastic buffer/V.24 for CMN-16

CD

Channel Doubler cable

APPLICATION



* Specifications are subject to change without notification



data communications

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Interconnecting Sub-channels of Two Multiplexers Operating with Different Clocks