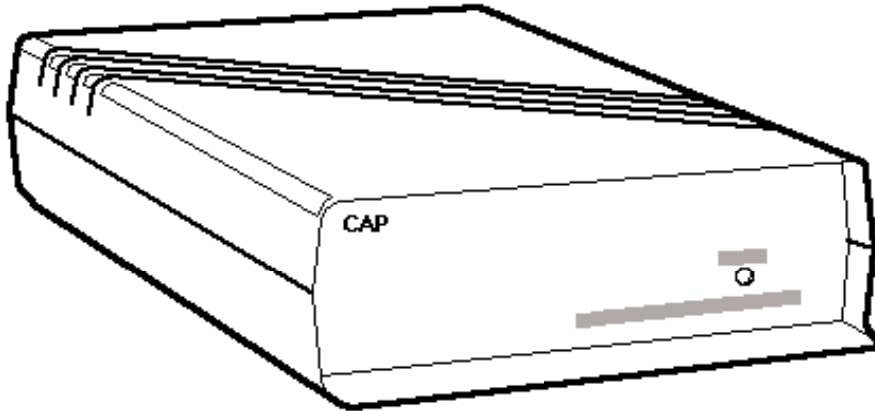




BLACK BOX[®]

NETWORK SERVICES

Communications Adapter Plus (CAP)



Our all-purpose async RS-232 communication appliance: versatile, affordable, and can be customized to your unique needs.

Key Features

- ▶ *Supports the conversions you're looking for: word structure, flow control, character set, data rate, and transmission mode.*
- ▶ *Connects devices that communicate from 45.5 bps all the way up to 38.4 Kbps without losing data.*
- ▶ *Supports hardware or software flow control.*
- ▶ *Custom software is available for a wide variety of special requirements.*
- ▶ *Custom hardware modifications for those really special requirements.*

Tired of trying to get your basically incompatible RS-232 machines to talk to each other? Your problems may be over. Our Communications Adapter Plus (CAP) allows you to link two mismatched asynchronous RS-232 devices for data communication by converting protocols in any of the following areas:

- **Character Set.** Though ASCII, EBCDIC, Baudot code, transcode, and ticker tape are mutually unintelligible, the CAP can take data sent in any of these formats and translate it into any of the others.
- **Word Structure.** Machines looking for different word lengths can chop each other's messages to bits, but with the CAP, 5-, 6-, 7-, and 8-bit words can be freely interchanged. And parity is no problem—set the CAP for even, odd, mark, space, or no parity checking.

- **Transmission Mode.** The CAP can be set to automatically adjust to the one-way or two-way demands of each port for simplex, half-duplex, and full-duplex modes.
- **Flow Control.** The CAP has 32K of buffer RAM and uses it to play data-stream traffic cop expertly. It prevents tie-ups between X-ON/X-OFF, ENQ/ACK, and DTR/CTS flow control.
- **Data Rate.** Another good thing about the CAP's spacious buffer is that it gives even very slow machines time to play catch-up

with very fast ones. The CAP can mediate exchanges between devices working at all common speeds between 45.5 bps and 38.4 Kbps.

If there's something you don't see here, call us. We can make a customized CAP just for your application. (See the next page for more about customizing the CAP).

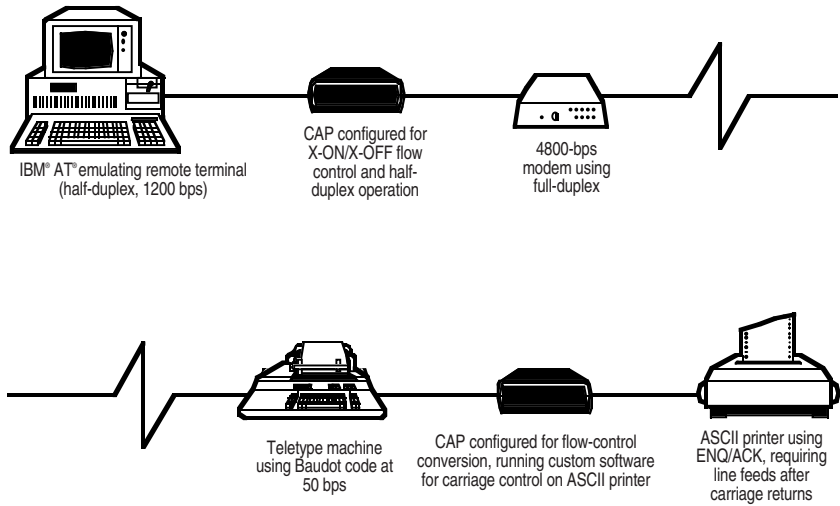
Typical Application

Connect a mini sending straight async EBCDIC with a printer set to receive even parity, ENQ/ACK, ASCII data.

Bring a 300-bps half-duplex machine into a 19.2-Kbps full-duplex conversation.

Connect a PC with a 2400-bps-max communications card to a 9600-bps modem while checking for mark parity.

The Communications Adapter Plus (CAP) makes async RS-232 incompatibility problems disappear.



Technically Speaking

- Each of the two ports on the Communications Adapter Plus (CAP) can be easily configured to match the settings of the attached device with internal DIP switches.
- The CAP can control the RS-232 interface leads to provide hardware-based DTR/CTS flow control.
- If you have a special application—adding line feeds after carriage returns for printers, for example, or time-delay signal generation—we

can tailor-craft software to the situation.

- Our Special Products Group can add hardware features as well. For example, the CAP can be modified to run on DC power at 12 V, 24 V, or 48 V, or the board can be fitted with a piezo alarm and/or a relay modification for a normally open/normally closed switch at 3 A, both of which can be controlled via custom software.

Additional equipment you may need:

- Cable to run from the CAP's DB9 connectors to your devices (see "Cable for Your Application" below)
- Spare Power Supply
- Six-Line AC Surge Protector

For these and other components...
Call our expert Technical Support Staff for all your Interface Converter needs. They'll help you find the best equipment for your application.

Specifications

Processor —Z-80 CPU	each port, and Power
Memory —32 KB RAM, 8 KB EPROM	Connectors —(2) DB9 female
Protocol —Asynchronous operation only	MTBF —58,000 hours in a ground-benign environment
Speed —45.5 bps to 38.4 Kbps	Standalone Versions:
Controls —Reset	Enclosure —High-impact plastic
Flow Control —X-ON/X-OFF, ENQ/ACK, DTR/CTS	Size —4.6H x 14W x 21.6D cm
Interface —(2) RS-232/V.24, configured as DTE	Weight —0.9 kg
Indicators —RXD and TXD for	

Ordering Information

This information will help you place your order quickly.

PRODUCT NAME	ORDER CODE
Communications Adapter Plus (CAP)	
Standalone Box	CMA02AE
CABLE FOR YOUR APPLICATION:	
CAP to DTE Cable (DB25 Male)	EHM023-0010
CAP to Modem Cable (DB25 Male)	EHM024-0010
CAP to AT Cable (DB9 Female)	EHM025-0010
Straight 9-Pin Cable (DB9 Male)	ECN12D-0010-MM