

## V.35 Interface Converters

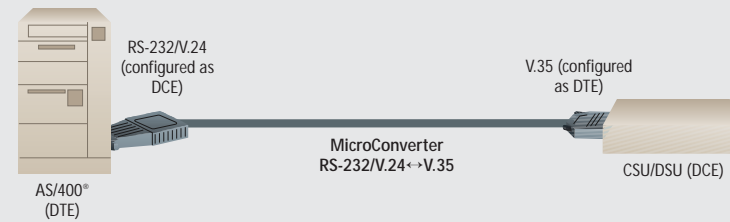


**Match up your V.35 and RS-232/V.24 or RS-422 equipment—just add a V.35 Interface Converter!**

## FEATURES

- Bidirectional data conversion in three formats:
  - RS-232↔V.35
  - RS-422↔V.35
  - MicroConverter RS-232/V.24↔V.35.
- DCE or DTE jumper-selectable.
- Transparent to speed and protocol.
- Maximum speeds of 64 kbps (RS-232↔V.35 models), 200 kbps (MicroConverter RS-232/V.24↔V.35 models), and 2.5 Mbps (RS-422 ↔V.35 models).

*The MicroConverter RS-232/V.24↔V.35 allows two incompatible pieces of equipment to communicate.*



## OVERVIEW

RS-232, RS-422, and V.24 interfaces are incompatible with V.35, aren't they? Not when you use a Black Box V.35 Interface Converter.

Choose from two standalone, two rackmount card, and four micro models. These converters are bidirectional data converters, DCE or DTE switch-selectable on each end, and transparent to speed and protocol. Configure each side of the converter as a DCE or DTE. The side that's configured as a DCE connects to a DTE. And the side that's configured as a DTE connects to a DCE. With the converters, you can only connect a DCE to a DTE, and vice versa. You cannot connect two DCEs or two DTEs together using the converter.

The micro models are also interface-powered, so no AC power is required.

In a typical application, your V.35 modem connects to your RS-232 or RS-422 terminal via one of our V.35 interface converters. Connect one side of the converter to V.35 cable and the other side to RS-232 cable. Your incompatible devices can now talk to each other.

### RS-232↔V.35 Interface Converter and RS-422↔V.35 Interface Converter

These converters are available as a standalone box or a rackmountable card. Choose 115- or 230-VAC versions.

The converters provide bidirectional conversion of all commonly used V.35 and RS-232 signals. One port is configured as DTE (for RS-232/RS-422 or V.35 terminal equipment) and the other is DCE (for RS-232/RS-422 or V.35 modem equipment). This model, too, connects a DTE to a DCE, or vice versa, but not a DTE to DTE nor DCE to DCE.

### MicroConverter RS-232/V.24↔V.35

Used in synchronous applications, this converter operates at speeds up to 64 kbps. It connects a V.24 interface to a V.35 interface. It converts the physical as well as the electrical interface.

This bidirectional data converter includes an integral 6.5-ft. (2-m) cable with a 34-pin, V.35 male or female connector on one end. So you save the cost of a cable.

And the converter operates without AC power, using ultra-low power from the DTE and DCE equipment's data and control signals.

The pocket-sized converter weighs less than a pound—including cable and connector. It'll fit just about anywhere.

It's plug-and-play, lightweight, and compact for easy installation.

## TECH SPECS

### RS-232↔V.35:

Speed — Up to 64 kbps  
 Operation — Synchronous, transparent to protocol  
 User Controls — (1) DCE/DTE switch  
 Interface — RS-232, V.35; both interfaces DTE/DCE selectable  
 Connectors — RS-232: DB25 male; V.35: (1) 34-pin female "M" block  
 Power — 115 VAC, 60 Hz, 13 watts (230-VAC model available on request)  
 Size — IC221A-R3: 2.1"H x 8.8"W x 11.5"D (5.3 x 22.4 x 29.2 cm);  
 IC221C-R3: 1.2"H x 7.5"W x 10.5"D (3 x 19.1 x 26.7 cm)  
 Weight — 2 lb. (0.9 kg)

### RS-422↔V.35:

Speed — Up to 2.5 Mbps  
 Operation — Synchronous, transparent to protocol  
 User Controls — (1) DCE/DTE switch  
 Interface — RS-422, V.35  
 Connectors — RS-422: (1) DB37 female (pinned to RS-449 specifications);  
 V.35: (1) female 34-pin "M" Block  
 Power— 115 VAC, 60 Hz, 16 watts (230-VAC model available on request)  
 Size — IC483A-R2: 2.3"H x 8"W x 11.9"D (5.8 x 20.3 x 30.2 cm);  
 IC483C-R2: 1.2"H x 7.5"W x 10.5"D (3 x 19.1 x 26.7 cm)  
 Weight — 2 lb. (0.9 kg)

### MicroConverter RS-232/V.24↔V.35:

Speed — Up to 200 kbps  
 Operation — Synchronous, transparent to protocol  
 Cable Length — 6.5 ft. (2 m)  
 User Controls — (1) DCE/DTE switch  
 Interface — V.24/RS-232, V.35  
 Connectors — IC720A-M: (1) DB25 male, (1) M/34 male;  
 IC720A-F: (1) DB25 female, (1) M/34 female;  
 IC721A-F: (1) DB25 female, (1) M/34 female;  
 IC721A-M: (1) DB25 female, (1) M/34 male  
 Power — From the interface  
 Size — 0.9"H x 2.1"W x 4.3"D (2.3 x 5.3 x 10.9 cm)  
 Weight — 0.9 lb. (0.4 kg), including cable and connector



IC221A-R3



IC721A-F

## WHAT'S INCLUDED

### RS-232↔V.35 and RS-422↔V.35 Interface Converters:

- ◆ Converter, housed in a sturdy black box
- ◆ Power adapter
- ◆ Users' manual

### MicroConverter RS-232/V.24↔V.35:

- ◆ Converter, built into an oversized connector hood
- ◆ 6.5-foot (2-m) attached cable
- ◆ 34-pin male or female V.35 or V.24 connector (please specify gender)
- ◆ Users' manual

Item	Code
RS-232↔V.35 Interface Converter	
Standalone	IC221A-R3
Rackmount Card	IC221C-R3
RS-422↔V.35 Interface Converter	
Standalone	IC483A-R2
Rackmount Card	IC483C-R2
MicroConverter RS-232/V.24↔V.35	
DB25 Male, M/34 Male	IC720A-M
DB25 Male, M/34 Female	IC720A-F
DB25 Female, M/34 Female	IC721A-F
DB25 Female, M/34 Male	IC721A-M

### You might also need...

V.35 Interface Cable, 10-ft. (3-m), Male/Male	EYN450-0010-MM
RS-232 Cable, 25-Conductor, DB25 Male/DB25 Male, 10-ft. (3-m)	ECM25C-0010-MM