



## ◆ Framed E1 to V.35 Converter

### ➤ Features

- V.35 rate  $N \times 64\text{kbps}$  ( $N=1\sim 31$ ) optional arbitrarily
- Support four clock modes
- Support local analog/digital loopback
- Support remote loopback function
- Provide false random code test function
- V.35 interface uses M34 standard connector
- E1 interface supports framing and non-framing modes, with the occupied time slot selected arbitrarily
- E1 interface balanced 120ohm/unbalanced 75ohm automatic
- Available with independent structure and 19-inch rack-mounted structure (rack-mounted structure can be inserted with 16 modules)
- AC 220V and DC-48V inputs may be selected for interface converters of both structures
- For rack-mounted interface converter, dual power supply heat backup is provided to ensure a high operating reliability



### ➤ Introduction

FE1-V35 adopting ASIC (application specific integrated circuit) design. It is capable of converting  $N \times 64\text{K}$  continuous data flow into PCM signal of E1, with a rate up to 1984Kbps (time slot 0 is used to transmit synchronizing information). Subscriber data is put within E1 frame, occupying only the needed time slot. Time slot is distributed freely according to the demand of the subscriber. When subscriber data rate is up to 2048Kbps, line transmission is of full transparent mode, i.e., non-framing structure

### ➤ Specification

#### E1 interface

Frame structure	framing/non-framing
Resistance	75ohm, physical interface BNC 120ohm, physical interface RJ45
Code	HDB3
Receiving electric level	0~-43db
Sending high electric level	2.37V $\pm 10\%$ , 75ohm 3.00V $\pm 10\%$ , 120ohm
Transmission distance	Single-mode: up to 120km Multi-mode: up to 2km
Sending low electric level	0V $\pm 0.1\text{V}$
Transmission distance	600m

#### V.35 interface

Data rate	$N \times 64\text{Kbps}$ ( $N=1\sim 32$ )
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Interface character	match V.35
Type of connector	M34 connector
Operating mode	DCE/DTE
Clocking options	G.703 derived clock, internal/external clock
<b>Data port</b>	
Data port type	V.35/DCE
Rate	N×64Kbps(N =1~31)
Physical interface	M34(Female)
Code	NRZ
Structure	
Independent	140mm(depth) x 210mm(width) x 42mm(height)
Power supply	
Independent	85V~264V AC input, 5V/2A output -36V~-72V DC input, 5V/2A output
Power Interface	DC power terminal/AC socket
Power consumption	3W
Operating temperature	0℃~50℃
Storage temperature	-20℃~80℃
Humidity	5%~90% (free of condensate)

## ➤ Ordering Information

Model NO.	Description
FE1-V35-00	Framed E1-V35 interface convertor, 75ohm&120ohm, AC 96-260V
FE1-V35-01	Framed E1-V35 interface convertor, 75ohm&120ohm, -48VDC

## ➤ Application

