Framed E1 - V.35 converter Interface Converter

Spot-light:

FE1-V.35 converter provide conversion between ITU-T G.703 standard E1 interface and standard V.35 interface, can convert E1 channel of SDH, PDH, and other Optical Transmission Equipment or microwave, satellite Equipment to V.35 channel, Extend V.35 channel of DDN.

Description:

FE1-V.35 Interface Converter is a FE1-V.35 framing structure interface converter adopting ASIC (application specific integrated circuit) design. It is capable of converting Nx64K continuous data flow into PCM signal of E1, with a rate up to 2048Kbps (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.

The data port is V.35, with the data rate optional from 64K to 2048K depending on the number of the selected time slots. M34 connector is adopted.

Line interface is E1, which supports framing structure and non-framing structure and provides optional balanced or unbalanced connection mode.

Features:

- V.35 rate Nx64kbps(（N=1~32）optional arbitrarily
- Support four clock modes (Internal clock, external E1 clock, sending E1 clock, V.35 clock)
- 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

Specifications

E1 interface:
Channel capacity: 1 Channels
Interface Rate: n x 64Kbps (n=1~ 32)
Bit Rate: 2.048 Mb/s ±50 ppm
Line Code: HDB3
Line Impedance: 120 Ohm and 75 Ohm
Connector: BNC and RJ-48C
Pulse Shape: ITU-T G.703; G.704
Jitter Performance: ITU-T G.823

V.35 interface: (1 port)
Interface Rate: n*64K (n=1~ 32)
Interface character: match V.35
Connector: M34
Interface type: DCE/DTE
Clocking options: G.703 derived clock, internal/external clock

Architecture:
Stand alone: 140mm(depth) x 210mm(width) x 42mm(height)

Power supply:
DC: -48V (-36 to -72V);
AC: 85 to 264 VAC ; 47 ~ 63Hz

Power Interface: DC power terminal/AC socket
Power Consumption: 3 W

Other Specification
Operation temperature:0℃～50℃
Storage temperature:-20℃～80℃
Humidity: 0～90%(no condensation)

Ordering Information:

FE1-V35/AC	Framed E1 - V35 interface convertor, 75/120, 220V
FE1-V35/DC	Framed E1 - V35 interface convertor, 75/120, DC 48 VDC

Application: