

# FT-E1V01 Fast Fiber Optical Modem

## Features:

- Highly integrated abundant FPGA circuits, more stability
- Provides fiber link for V.35 applications
- Adopts AGC circuit to realizes different transmitting wavelength
- Adopts DLL to reduce the jitter by recovering data & clock from fiber single
- V.54 compliance of internal loop-back test function, built-in bit rate error tester
- Operates at 32 selectable data rates as:  $N \times 64\text{kbps/s}$ , up to 2.048Mbps/s
- Technical Specification:

## Electrical:

- V.35 interface
- Bit rate:  $N \times 64\text{kbps}$  ( $N=1\sim 32$ )
- Clock mode: Internal clock/ Line Clock / External clock ( optional )
- Interface Type: V.35 / DCE
- Electrical character: ITU-T V.35 compliant
- Terminal Standard: ISO2593 compliant

## Optical:

- Bit rate:  $2.048\text{Mbps} \pm 50\text{ppm}$
- Line code: 1B1H
- Optical source: LD
- Typical output power:  $\geq -9\text{dBm}$
- Receiver type: PINFET
- Receiver sensitivity:  $\leq -40\text{dBm}$  ( $\text{BER} \leq 10^{-11}$ )
- Optical connector: FC/SC
- Wavelength: 1310/1550nm

## Physical:

- Stand-alone compact (19"/2 )
- Dimension: 220mm x 43.5mm x 150mm
- Weight: 1.0kg
- Rack type: EIA 19"
- Rack Mount ( Integrated slide-in-module cards 12 slots chassis, 19")
- Dimension: 483mm x 266mm x 225mm
- Weight: 12kgs
- Rack type: EIA 19" rack

## Environment:

- Power Input: AC 220V or DC -48V at option
- Power consumption:  $\leq 5\text{W}$
- Temperature:  $-5^{\circ}\text{C} \sim 40^{\circ}\text{C}$  for operation -  $20^{\circ}\text{C} \sim 60^{\circ}\text{C}$  for storage & transport
- Humidity: 10%~90% , non-condensing
- No corrosive and solvent Gas, no fluty dust and intense magnetic field interface

