

## 34M E3 O/E Converter



### Overview

The O/E converter can be used to provide 34M (E3) or 44M (T3) converter between electrical interface and optical interface of PDH network. It conforms to the ITU- T G.703 E3/T3 recommendation. The converter features compactness, light weight, low power consumption and high reliability. The 34M O/E Converter operates on 1.31 $\mu$ m lasers, with a typical transmission distance of 40 km over single mode optical fibers. For longer hops, 1.55 $\mu$ m laser sources may be selected. Exterior power supply, all the functional blocks are integrated on a single PC board, which makes the converter compact and reliable. 220 V AC or – 48 V DC power options are available by selecting an appropriate plug-in power unit.

### Product Features

- ✓ High reliability: endure the harsh testing, conform the ITU-T G.703
- ✓ Higher performance of ASIC IC design to ensure the device can work on all conditions.
- ✓ Rich functionality: provide standard electrical interface, 2 loop function to ease engineering installation and trouble shooting;
- ✓ Flexibility: can used for all DTE with E3/T3 interface; it can work on framed and unframed interface;
- ✓ Easy operation: plug and play
- ✓ Compact size

### Technical Specification

#### Optical interface

- ✓ Connector: SC, using receive and transmit integral whole mold piece.
- ✓ Wavelength: 1.31 $\mu$  (typical) , with a typical transmission distance of 40 km over single mode optical fibers

#### Electrical interface

- ✓ Comply with ITU-T G.703 E3/T3 recommendation
- ✓ Bit rate: 34.368Mbit/s or 44.736Mbit/s
- ✓ Impedance: 75 $\Omega$  (unbalanced)

#### Power

- ✓ DC type: –48V –36V to –60V
- ✓ AC type: ~220V 165V~265V

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- ✓ Power consumption:  $\leq 3W$

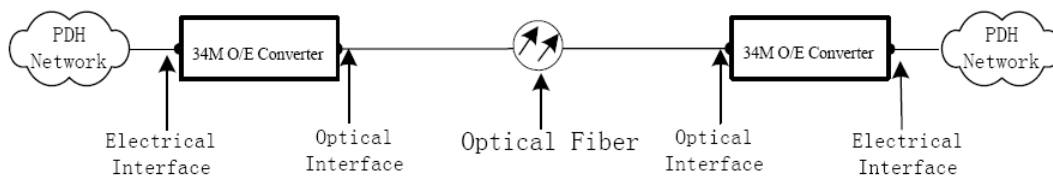
### Working environment

- ✓ Temperature: 0 ~50°C
- ✓ Humidity:  $\leq 90\%$  non condensing

### Dimension

- ✓ Width: 205mm, Height: 46mm ,Deep: 135mm

## Typical Application



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