# FOM-731
# FOM-734
# FOM-738

# RS232 Fiber Modem



Tainet FOM-73x series fiber-optic modem converts transmissions of 1 to 8 channels from RS232 to fiber. This product resolves the problems of contradiction between communication distance and communication rate.

At the same time, it also resolves the problems of electromagnetic interference, earth link disturbance and thunder/lightning destruction, thus it greatly enhances the reliability, security and privacy of data communication.

It can be widely used in a broad range of situations such as industrial control, process control and transportation control, and especially suited for banking, electric power as well as departments and systems which have special request to the electromagnetic interference environment.

## Features

- Data transmission rate: 0-115.2Kbps self-adapt.

- Serial date creates receive and send signal automatically.

- Transmit distance: 2 Km multi-mode, 40 Km/60Km/120Km single mode.

- Supporting loopback function.

- Combination of PDH technology and digital lock loop clock technology.

- Unique serial port for circuit protection, supporting hot-plugging.

- Data transmission is stable and reliable with integrated light-receiving and transmitting module.

- Complete surface paste and install craft, industrial grade design, and production-runs with piece-pasting machine.

- Support connection with DTE or DCE device.

- Support 3 lines RS232 (TXD, RXD, GND)

- AC 220V, DC-48V, DC+24V, DC Power and Polarity-Free

## Parameters and Specifications

### Fiber Interface

| | |
|---|---|
| Wavelength： | Single-mode 1310nm/1550nm |
| | Multi-mode 850nm/1310nm (Optional) |
| Fiber Core number: | Double core or Single core |
| Sending | -9dBm/-5dBm |
| consumption: | 0-50km/120km |
| Transmitting range: | < -36dBm (BER <$10^{-11}$) |
| Receiving sensitivity: | Connector：SC/FC/ST |

### RS232 Port Rate

- Asynchronous mode: 0-115.2Kbps auto-negotiation
- Characteristic: satisfies ITU-T V.24 standard
- Connection Type: RJ-45

### Environment

- Operating temperature:    0℃~50℃
- Relative humidity:    95% (Non-Condensation)
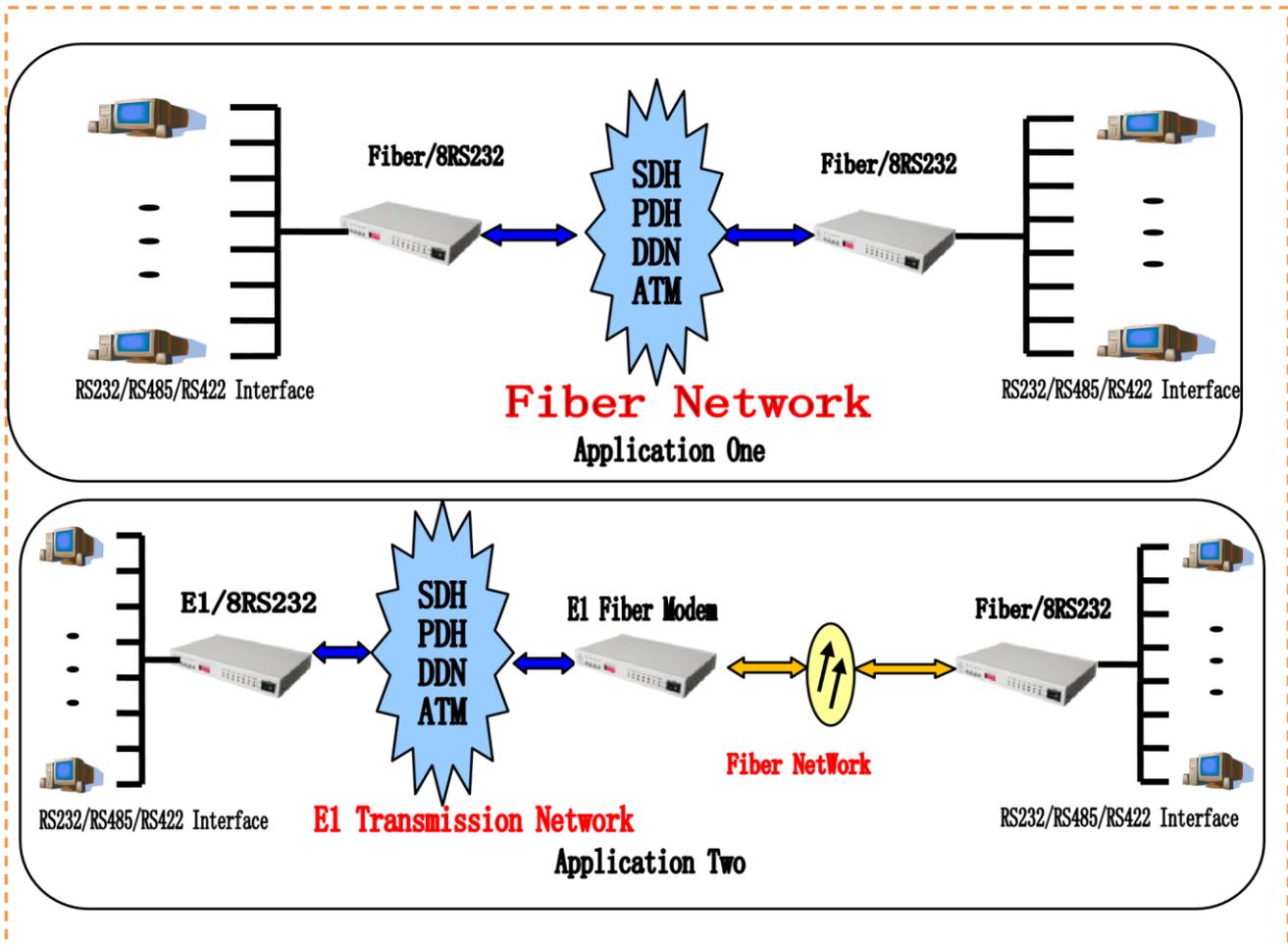
### Power

- DC -48V:    Voltage range -36V~-72V
- AC 220V:    Voltage range 175V~265V power consumption

### Dimension

- 210（W）×140（D）×30（H）mm

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## Application



## Ordering Information

| FOM-731/A | 1 * RS232 Fiber Modem, Dual Fiber, Single mode, 20KM, SC connector, AC220V |
|-----------|-----------------------------------------------------------------------------|
| FOM-731/D | 1 * RS232 Fiber Modem, Dual Fiber, Single mode, 20KM, SC connector, DC-48V |
| FOM-734/A | 4 * RS232 Fiber Modem, Dual Fiber, Single mode, 20KM, SC connector, AC220V |
| FOM-734/D | 4 * RS232 Fiber Modem, Dual Fiber, Single mode, 20KM, SC connector, DC-48V |
| FOM-738/A | 8 * RS232 Fiber Modem, Dual Fiber, Single mode, 20KM, SC connector, AC220V |
| FOM-738/D | 8 * RS232 Fiber Modem, Dual Fiber, Single mode, 20KM, SC connector, DC-48V |

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