

TEK



Transmitter: FO11DT(XX)

Receiver: FO11DR(XX)

1 Channel Video Optic Transceiver

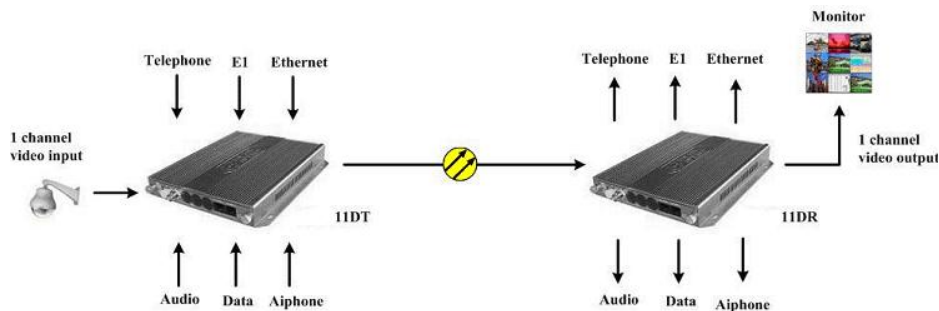
FO11D series can transmit 1 channel composite video, 1 to 6 channel duplex audio, or 1 to 4 channel of duplex data/ contact closure signal or in any combination over one fiber; and it can provide option of 1 to 4 channel 10M/100M Ethernet / E1, 1 to 8 channel telephone/Intercom signal.



Features

- Exceeds the RS250C standard for SNR, DG and DP
- Bandwidth up to 6 MHz, SNR≥67dB
- The video quality is independent of transmission distance and up to the maximum optical loss.
- 8/10 bit digital PCM video coding
- Compatible with NTSC, PAL and SECAM
- Distance option of up to 120KM is possible
- Super optical dynamic range, 0Km is not saturated
- Supported by TEK network management system
- Two RJ45 ports with option of plug-in interfaces in any combination
- 24-bit digital audio, 75dB SNR
- High-speed optical fiber digital transmission technology
- RS232, RS422, RS485 or Manchester data
- Data transmission rate DC to 256kbps
- Power supply, fiber link, data state indication
- Surface mount technology (SMT)
- Rack-mount/stand-alone/19" 1U Rack mount Enclosure

Typical Applications



Specifications

Video

| | |
|--------------------|---------------------------|
| Video channel | 1 |
| Video format | NTSC, PAL, SECAM |
| Voltage | 1V _{p-p} , 75Ω |
| Max-input voltage | 1.5V _{p-p} , 75Ω |
| Bandwidth | 6 MHz |
| Differential gain | ≤1% |
| Differential phase | ≤1° |
| Video SNR: | ≥67 dB |
| Encoding | 8/10 bit PCM |

Audio

| | |
|--------------------|----------------------|
| Frequency Response | 50Hz - 20kHz |
| Audio SNR | ≥75dB |
| Audio coding | 24 BIT digital audio |
| Sample resolution | 48k |

Data

| | |
|------------------|--|
| Data type | RS232,RS422,RS485, Manchester |
| Baud rate | 0-115.2 kbps |
| Bit error rate | 10 ⁻⁹ |
| Optional Signals | Contact Closure, E1, Telephone, AIPHONE |

Ethernet

| | |
|-----------|-------------------|
| Standard | IEEE802.3 |
| Data rate | 10M/100M adaptive |

Environment

| | |
|-----------------------|----------------------|
| MTBF | >100,000 hours |
| Operating temperature | -30°C to 74°C |
| Storage temperature | -40°C to 85°C |
| Humidity | 0~95% non-condensing |

Connector

| | |
|---------|---------------------------|
| Video | BNC |
| Optical | FC / ST / SC |
| Data | RJ45 / Terminal Block |
| Power | 4-pin Self-lock Interface |

Electrical and Mechanical

| | |
|-------------------|--|
| Power | Standalone :+5.5VDC Rack mount: from FO-18 chassis |
| Dimensions | Standalone:182x201 x28mm |
| Weight | Standalone: 1KG Rack mount: 0.3KG |
| No. of rack slots | 1 |

Optical Power Budget

| Fiber type | Transceiver Type | Receiver Type | Optical Power Budget (dB) | Transmission Distance (km) |
|-------------|------------------------|------------------------|---------------------------|----------------------------|
| Multi-mode | FO11DT(XX)-2KM-FC-M-A | FO11DR(XX)-2KM-FC-M-A | 11 | 2 |
| Single mode | FO11DT(XX)-20KM-FC-S-A | FO11DR(XX)-20KM-FC-S-A | 10 | 20 |
| Single mode | FO11DT(XX)-40KM-FC-S-A | FO11DR(XX)-40KM-FC-S-A | 15 | 40 |
| Single mode | FO11DT(XX)-60KM-FC-S-A | FO11DR(XX)-60KM-FC-S-A | 21 | 60 |
| Single mode | FO11DT(XX)-80KM-FC-S-A | FO11DR(XX)-80KM-FC-S-A | 29 | 80 |