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2246DK

One-Way Video with Two-Way Audio and Data

Overview

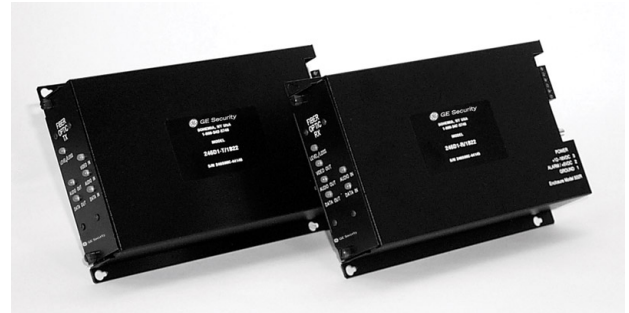
The 2246DK series fiber links support high-quality, simultaneous transmission of one-way video and two-way audio and control data over one or two single-mode fibers.

Control and Intercom Interface

The 2246DK series is designed specifically to interface to the KTD336 control and intercom equipment providing one-way video, two-way audio, RS-422 return control and forward DTMF control signals.

Superior Built-In Diagnostics

The unique SMARTS™ diagnostic technology provides an extensive set of built-in diagnostic tools including a video test pattern generator that allows failures to be diagnosed from the monitor, and LED displays for monitoring video, audio, data and optical signals.



Standard Features

- **One-way video, two-way audio and data over one or two single-mode fibers**
- **Interfaces to GE Security CCTV equipment**
- **Supports RS-422 and DTMF data formats**
- **8 MHz video bandwidth**
- **>640 TV lines resolution**
- **20 Hz to 15 kHz audio frequency response**
- **Audio SNR >50 dB**
- **20 dB optical budget**
- **Optical AGC**
- **Standalone and rack configurations**



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Specifications

Video

- Channels: 1 simplex
- Format: EIA, CCIR, NTSC and PAL
- Input/Output Signal: 1.0 V pk - pk
- Bandwidth: 8 MHz
- Video Resolution: 640 TV lines
- Signal-to-Noise Ratio: >50 dB
- Input/Output Impedance: 75 ohms
- Differential Phase: 3°
- Differential Gain: 3%

Data

- Channels: 1 duplex
- Formats: RS-422, DTMF
- Data Direction: RS-422 - RX to TX, DTMF - TX to RX
- Baud Rate: 19.2 kbps
- Input Logic Level: Per data format
- Output Logic Level: Per data format
- Impedance: Per data format
- Operating Mode: Asynchronous
- Bit Error Rate: <1.0E-9

Audio

- Channels: 1 duplex
- Input Signal Level: 6 V p-p, + 10 dBm maximum
- Input Impedance: 600 ohms balanced or unbalanced
- Frequency Response: 20 Hz to 15 KHz
- Output Signal Level: 6 V p-p, + 10 dBm maximum
- Output Impedance: 600 ohms balanced or unbalanced
- Signal-to-Noise Ratio: >50 dB

Optical

- Mode: Single Mode
- Optical Budget: 20 dB
- Emitter: Laser
- Wavelength: 1310 nm and/or 1550 nm (depending on model)
- Operating Distance: 31 mi (50 km)
- Transmitter Launch Power: -6 dBm
- Receiver Sensitivity: -26 dBm
- Gain Control: Optical Automatic Gain Control (OAGC)

Electrical

- Input Power: 13.5 VDC regulated
- Current Requirement: 500 mA
- Power Consumption: 7 W
- Power Factor: 4
- Protection: Solid-state short circuit protection
- Power Supply: Model 613P (optional)

Environmental

- Operating Temperature: -40 to 167 °F (-40 to 75 °C)
- Maximum Humidity: 95% relative, noncondensing

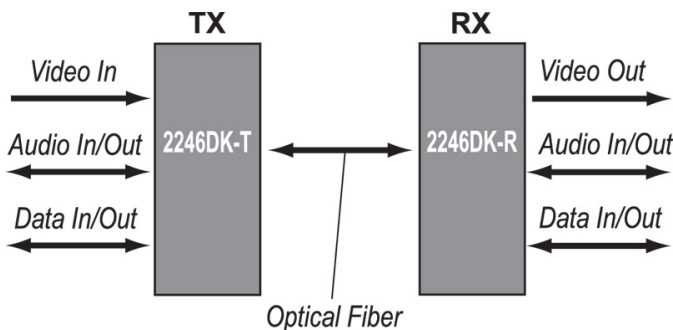
Standards

- Emissions: FCC Part 15, ICES-003, AS/NZS 3548, EN55022
- Immunity: EN50204, EN61000-4-2, -3, -4, -5, -6, -11
- Safety: UL 1950, CAN/CSA 22.2, NO. 950-95
- Laser Safety: EN60825

Mechanical

- Dimensions (LWD), Standalone Units: 9.31" x 6.33" x 2.15"
- Dimensions, Rack Units: 2 slots (2.0")
- Weight: Standalone 2.83 lbs (1.28 kg); rack 1.83 (0.83 kg)
- Construction: Aluminum

Related Diagram



Ordering Information

Use the Configurator below to select the options available for this product .

No. of Fibers	Product Type	Enclosure	Input/Output Data Type
1	T Transmitter	-R Rack Card	49 RS422 Input Data/DTMF Output (RX)
2	R Receiver	Omit for Standalone unit	94 DTMF Input/RS422 Output Data (TX)



GE Security

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