





VL-2264-2E Series Digital Video Fiber Converters

Models	Channel Count			
	 video	 data	 audio	 ethernet
VL-2264-2E	2	6	4	2



PRODUCT DESCRIPTION

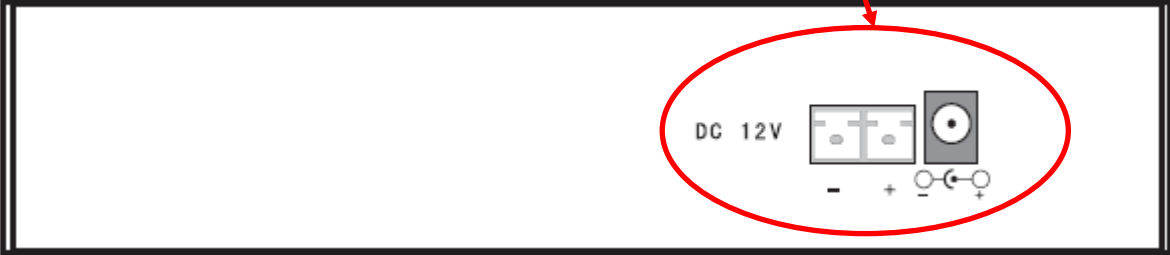
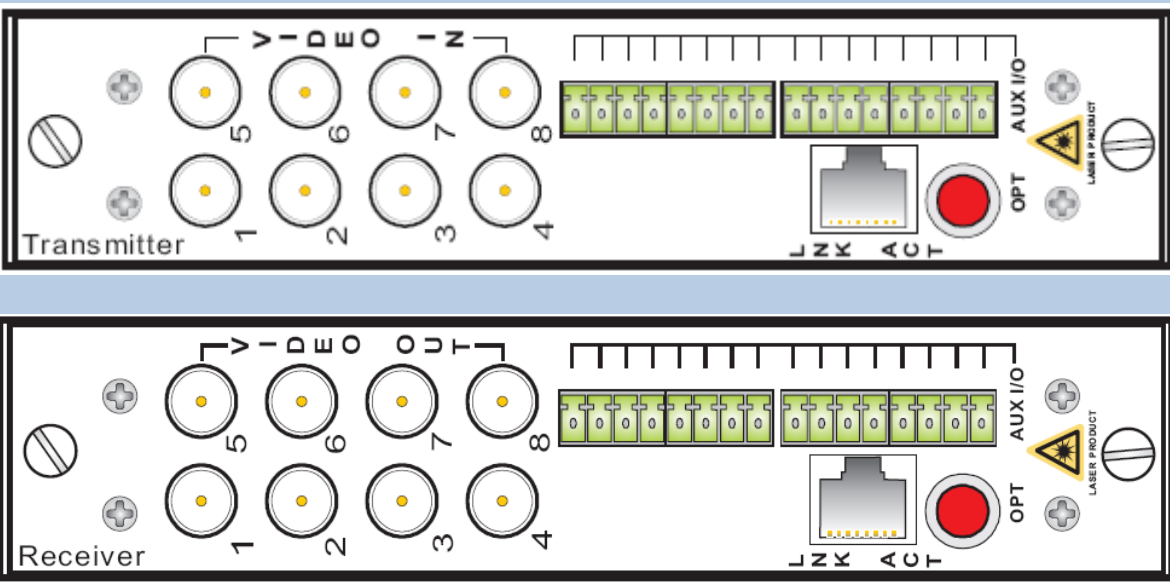
- The Wamin Optocomm *Velocity* Series VL-2264-2E multiplexer facilitates the transport of video, audio, data, and Ethernet frame that can be deployed effectively for almost any CCTV application. The multiplexer simultaneously transmits two channels of 10-bit digitally encoded broadcast quality video with six data, four audio and two 10/100Base-TX Fast Ethernet interface over one single-mode optical fiber.
- The units are directly compatible with NTSC, PAL or SECAM major composite video formats and support RS-232, RS-422, RS-485 and Manchester data protocols. In addition to data and audio, the VL-2264-2E offers two 10/100 Mbps Fast Ethernet interface with auto-negotiation, auto-sensing, and auto-MDI/MDI-X for a fast and easy Ethernet connection.
- These multiplexer units are typically used in CCTV applications where the cameras can transmit video signal to and receive control data from monitor end of the fiber link. User friendly Plug and Play design ensures the ease of installation and operation and is free of electrical or optical adjustment.
- The unit incorporates LED indicators to provide an instant overview of the system status. The VL-2264-2E is available for either standalone or 4U/1U height rack-mount installation.

KEY FEATURES

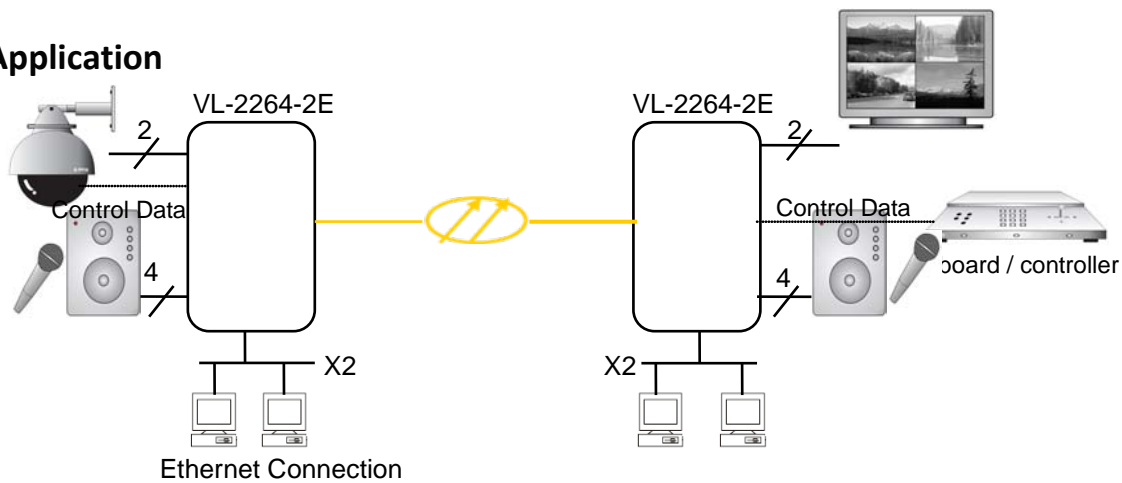
- Two-channel digital video multiplexer with 4 full-duplex audio channels, 6 full-duplex data Channels and two Fast Ethernet connection
- Uncompressed 10 bit video and 24 bit audio encoding give outstanding transmission quality
- NTSC, PAL or SECAM composite video formats compatible
- Automatic Gain Control ensures video signal stability and high performance transmission
- Support RS-232, RS-422, RS-485 (Full and Half Duplex) and Manchester data protocol
- 10/100 Base-T Ethernet bridging through the optical link
- LED Indicators for Instant System Monitoring
- No Electrical or Optical Adjustments Required
- Available in stand-alone and rack-mount
- RoHS Compliance

Must be check with VDS

TYPICAL APPLICATIONS

Models	Panels & Applications
Rear Panel	
Front Panel	

Application





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[VL-2264-2E Ordering Form](#)

Access Technologies ... FTTX, IP Digital Surveillance Networking

General Specifications

Power Supply	12 VDC, from adaptor for stand-alone units; from rack chassis for slide-in cards
Power Consumption	1A@12VDC
Dim. (Excl. Connector)	Stand-alone unit (mm): 260L x 205W x 45H; Slide-in card(mm): 260L x 173W x 40H
Weight	Stand-alone unit: 2.0 kg; Slide-in card: 1.5 kg
Operating Temperature	Main unit: -40°C to +70°C; Power adaptor: 0 ~ +40°C
Storage Temperature	-40 ~ +80°C
Operating Humidity	< 95% (non-condensing)
EMI compliance	FCC Class A, CE Class A

Optics

Optical Wavelength	1310/1550 nm
Fiber Type	single-mode (9/125 μm) fiber
Maximal Fiber Loss	12 dB
Optical Output Power	-5 ~ -12 dBm
Optical Receiving Sensitivity	-24 dBm
Connector	Simplex FC/PC (Optional SC or ST)

Video

Numbers of Channels	2 Max (0~1 optional)	Video Bandwidth per Channel	8 MHz
Connector	BNC 75 Ω typical	Digital Encoding	10 bits
Composite video formats	NTSC/PAL	SNR	≥ 67 dB (weighted)
Video Input Level	0.5 ~ 2 V _{p-p}	Differential Gain (DG)	< 1%
Video Output Level	1 V _{p-p}	Differential Phase (DP)	< 1°

Data

No. Channels	6 Max (0~5 optional)
Connector per Channel	Terminal block
Data Format	RS-232, RS-422 or RS-485 (Full/Half Duplex), NRZ, RZI and Manchester, or dry contact (output only), TTL (DI/DO)
Baud Rate per Channel	DC to 100Kbs

Audio

No. of Channels	4 Max (0~3 optional)
Connector per Channel	Terminal Block with Screw Clamps
Audio Encoding	24 bits
Audio Max. Input/Output Level	2 V _{p-p}
Audio Input/Output Impedance	600 or 100KΩ
Signal-to-Noise Ratio (SNR)	≥70 dB (weighted)
Audio Bandwidth per Channel	15 ~ 20KHz
Harmonic Distortion	≤1°

Ethernet

No. of Channels	2
Switching method	Store and Forward
Interfaces	1x 10/100Base-TX (IEEE 802.3u) Auto MDI/MDI-X, Auto-Negotiation



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VL-2264-2E Ordering Form

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Max distance (CAT5/5e/6)	100m
Connector	RJ45

VL-2264-2E Series Ordering Information

Ordering Code: VL-2264-2E-(T/R)-(S/M/L/O)-(M/R/U)-(F/S/T)

Whereas denotation is specified as following: -

T: Transmitter R: Receiver

S: 20km; M: 40km; L: 60Km; O: Special ordering

M: Stand-alone; R: 19 inches 1U Rack Card; U: 19 inches 4U Rack Card

F; FC; S: SC; T; ST connector

For example: VL-2264-2E-T-S-M-T is a stand-alone multiplexer equipped with transmitter (camera end), ST connector and capable of transmitting to 20Km.

Please check into the box to specify the working parameters, below, are common to all models.

Specify the transmission or receiving of video signal.	
<input type="checkbox"/>	Transmit the video signal from camera end.
<input type="checkbox"/>	Receive the video signal at monitor end.

Specify the type of optical connector.	
<input type="checkbox"/>	FC Connector
<input type="checkbox"/>	SC Connector
<input type="checkbox"/>	ST Connector

Specify the mode of optical fibre.	
<input type="checkbox"/>	Standard Single Mode (<20km)
<input type="checkbox"/>	Long Distance Single Mode (<40km)
<input type="checkbox"/>	Ultra Long Distance Single Mode (<60km)
<input type="checkbox"/>	Special ordering (< km)

Specify the unit type.	
<input type="checkbox"/>	Stand alone
<input type="checkbox"/>	Slide in card 19 inches 1U
<input type="checkbox"/>	Slide in card 19 inches 4U

Data channels, shown below, are specific to model ordered.

VL-2264-2E	<input type="checkbox"/> RS 232 ; <input type="checkbox"/> RS 422; <input type="checkbox"/> RS 485; <input type="checkbox"/> NRZ; <input type="checkbox"/> RZI; <input type="checkbox"/> Manchester
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Specify the number N of data channel in the parenthesis (N), where N=0~6. Must be check with VDS

VL-2264-2E	<input type="checkbox"/> RS 232 (); <input type="checkbox"/> RS 422 (); <input type="checkbox"/> RS 485 ()
	<input type="checkbox"/> NRZ (); <input type="checkbox"/> RZI (); <input type="checkbox"/> Manchester ()

For example, check into box and parenthesis as shown below for one RS232 and two RS422 data channels.

RS 232 (1); RS 422 (2); RS 485 (); NRZ (); RZI (); Manchester ()

Upon receipt of this Ordering Form, Wamin Sales Representative will respond customer with Ordering Code for confirming the configuration that customers intend to order.