KVM100D

Transmitter(TX)

Receiver(RX)

Product Features

- DVI digital video signal input and output
- Max. physical resolution 1920 * 1200
- Supports USB-HID devices without third-party driver

- Excellent EMC electromagnetic compatibility performance
- Meet the use in the high altitude environment of 5500m
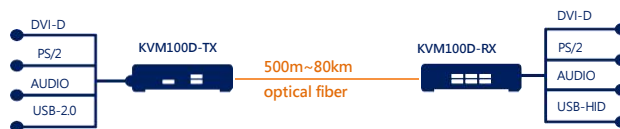- Support PS/2 keyboard and mouse

Product Overview

KVM100D is a KVM desktop signal long line driver developed for industrial automation & rail transit industry applications. Its core uses high-speed FPGA chip for signal acquisition and coding, and then uses single-mode and multi-mode optical fiber as the carrier to transmit high-definition audio and video and control signals (including USB, PS/2 keyboard and mouse, 3.5 mm stereo audio, DVI video, etc.) according to the optical modules with different communication distances, remote transmission and control within the range of 500 m to 80 km can be realized. The minimum working unit of KVM100D is composed of transmitter (TX) and receiver (RX). The transmitter adopts modular design and can be installed in a 19-inch standard cabinet together with the controlled target computer, which is convenient for the construction and maintenance of the machine room. The receiver is designed with a compact structure, which is easy to install on the remote console or in a compact space.

Transmitter (TX) Port Configuration			Receiver (RX) Port Configuration		
Category	Description	Qty.	Category	Description	Qty.
DVI Video Input	Physical resolution supports 1920 * 1200 (WUXGA)	1	DVI Video Output	Physical resolution supports 1920 * 1200 (WUXGA)	1
USB Input	USB2.0-A Socket	1	USB Output	USB2.0-A Socket	2
Audio Input	3.5mm Audio Socket	1	Audio Output	3.5mm Audio Socket	1
Audio Output	3.5mm Audio Socket	1	Fiber Interface	SFP Socket, Optional SC or LC (single and dual fiber) optical module	1
Fiber Interface	SFP Socket, Optional SC or LC (single and dual fiber) optical module	1	PS/2 Mouse	6P Mini-DIN F(Green) Socket	1
PS/2 Mouse	6P Mini-DIN F(Green) Socket	1	PS/2 Keyboard	6P Mini-DIN F(Purple) Socket	1
PS/2 Keyboard	6P Mini-DIN F(Purple) Socket	1			
Dimensions	210*206*44.4 mm (W*D*H)		Dimensions	210*206*44.4 mm (W*D*H)	
Power Supply	C13 Socket, AC Input 100VAC-240V AC±20%, 50/60Hz				

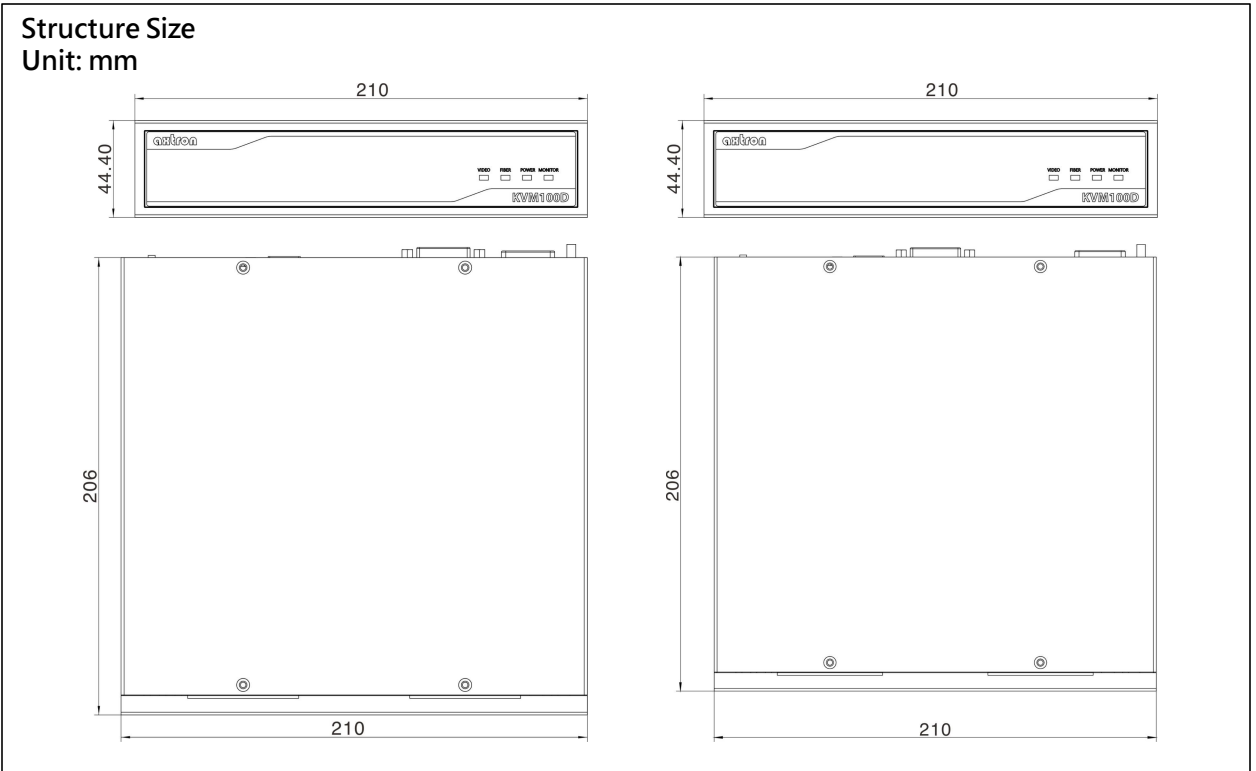| Environmental Parameters					
Operating Temperature	-25~60℃	Storage Temperature	-40~80℃	Vibration Shock	IEC 60068-2-6 1Grms
Humidity	5~95%@45℃ non-condensing	Altitude	≤5500m	MTBF	≥100000H
Product Certification	CE,FCC,KC,UL,PSE,UKCA,RoHS				

Application Scenario

DVI-D
PS/2
AUDIO
USB-2.0

KVM100D-TX

500m~80km
optical fiber

KVM100D-RX

DVI-D
PS/2
AUDIO
USB-HID

Equipment Room

Control Center

KVM100D

Structure Size
Unit: mm

Transmitter (TX) & Receiver (RX)   Front View

Transmitter (TX) & Receiver (RX) Rear View

Order Information: (Single-mode LC port optical module is configured by default)

Product Model	Material Number	Configuration	Fiber Interface	Optical Fiber Type	Extended Distance	Optical Fiber Requirement
KVM100D	M202300100	1U Transmitter built-in functional module * 1, Receiver * 1, preset EDID, Maximum video resolution 1920 * 1080, Transmitter DVI Video Input, Receiver DVI (copy) Output, USB2.0 Protocol Pass-through, AC input	SC & LC Single fiber bidirectional	Single mode & Multi-mode	500m~80km Optional	OM4
Accessories List	DVI-DVI video cable*1, USB-USB Type A data cable*1, 3.5mm audio signal cable (male)*1, National standard C13 plug power cord*2, Product use manual * 1, Qualified certificate * 1, Device Functional Conformance Checklist * 1, 2.5mm² WDZB-RYJ yellow-green grounding wire*2, LC-LC Single-mode fiber optic patch cord*1					