

Transmitter(TX)



Receiver(RX)



Product Features

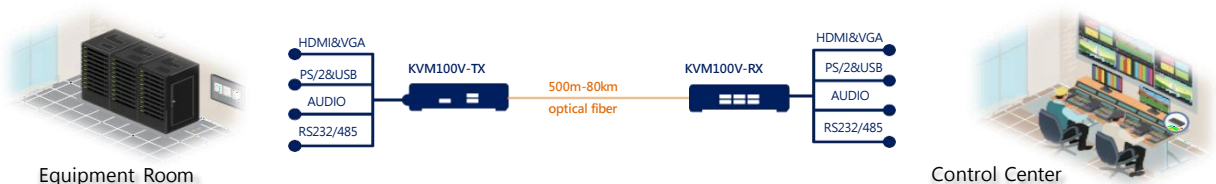
- With VGA (analog) and HDMI (digital) video signal input
- With two standard RS-232 and RS-485 communication ports
- USB2.0 protocol pass-through without third party driver
- Receiver (RX) dual copy display output (HDMI+VGA)
- Excellent EMC electromagnetic compatibility performance
- Meet the use in the high altitude environment of 5500m

Product Overview

KVM100V is a KVM signal long line driver developed for industrial automation and 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, VGA video, HDMI video, RS-232 & RS-485, etc.) according to the optical modules with different communication distances, remote transmission and control within the range of 500 meters to 80 km can be realized. The minimum working unit of KVM100V consists of a transmitter (TX) and a receiver (RX). The transmitter and receiver are designed in a compact structure, which is convenient to be installed on the console or in a compact space.

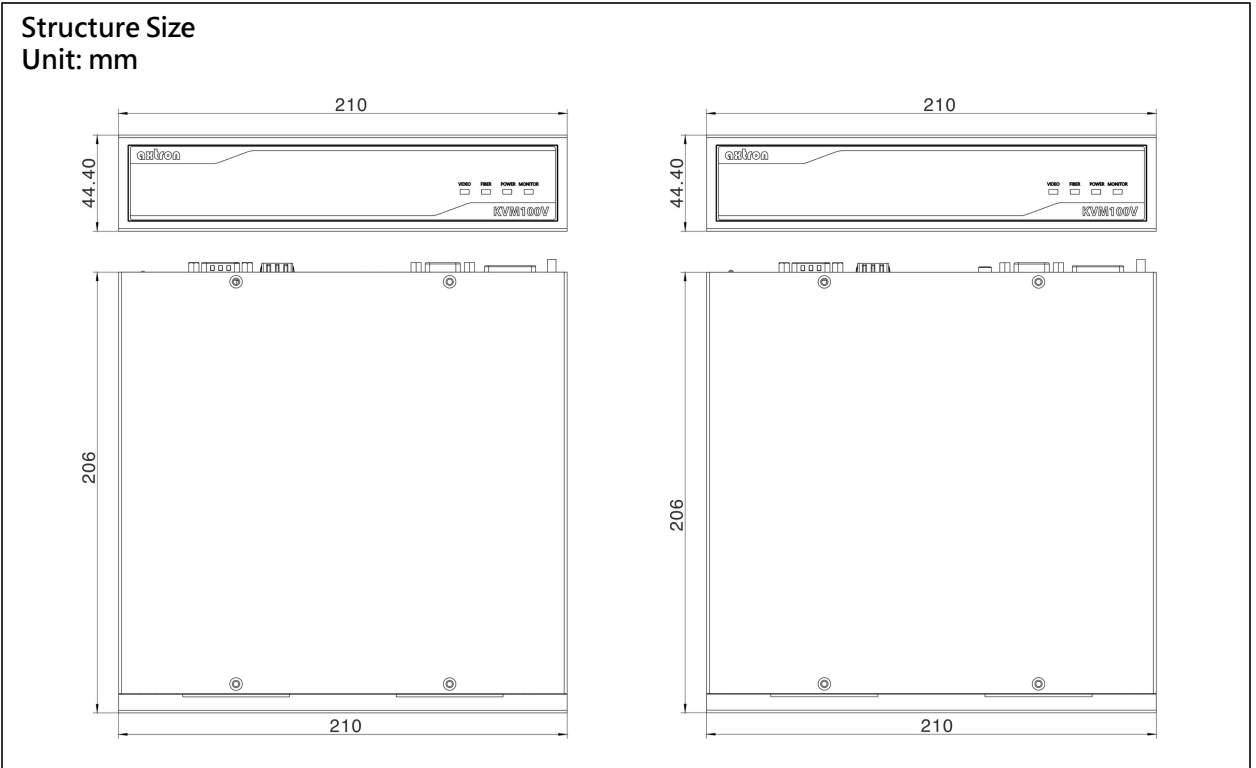
Transmitter (TX) Port Configuration			Receiver (RX) Port Configuration		
Category	Description	Qty.	Category	Description	Qty.
HDMI Video Input	HDMI-A (male)	1	HDMI Video Output	HDMI-A (male)	1
VGA video input	DB 15 Socket (hole) female	1	VGA Video Output	DB 15 Socket (hole) female	1
HDMI Loop	HDMI-A provide one HDMI video loop output	1	USB Input	USB2.0-A Socket	3
USB Input	USB2.0-A Socket	1	Audio Loop	3.5mm Audio Socket	1
Audio Input	3.5mm Audio Socket	1	PS/2 Mouse	6P Mini-DIN F (Green) Socket	1
Audio Loop	3.5mm Audio Socket	1	PS/2 Keyboard	6P Mini-DIN F (purple) Socket	1
PS/2 Mouse	6P Mini-DIN F (Green) Socket	1	Fiber Interface	SFP Socket, Optional SC or LC (single and dual fiber) optical module	1
PS/2 Keyboard	6P Mini-DIN F (purple) Socket	1	RS-232	DB 9 Socket (pin) male	2
Fiber Interface	SFP Socket, Optional SC or LC (single and dual fiber) optical module	1	RS-485	3.5mm spacing Terminal Block	2
RS-232	DB 9 Socket (pin) male	2	/	/	/
RS-485	3.5mm spacing Terminal Block	2	/	/	/
Dimensions	435*360*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°C	Storage Temperature	-40~80°C	Vibration Shock	IEC 60068-2-6 1Grms
Humidity	5~95%@45°C non-condensing	Altitude	≤5500m	MTBF	≥100000H
Product Certification	CE,FCC,KC,UL,PSE,UKCA,RoHS				

Application Scenario



KVM100V

Industrial-grade KVM Signal Long Line Driver



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
KVM100V	M202300104	1U Transmitter built-in functional module * 1, Receiver * 1, preset EDID, Maximum video resolution 1920 * 1080, Transmitter VGA+HDMI video input (Only one video input can be selected), Receiver VGA+HDMI dual display(copy) output, 2*RS232, 2*RS485, USB2.0 Protocol Pass-through, AC Input	SC & LC Single fiber bidirectional	Single mode & Multi-mode	500m~80km Optional	OM4
Accessories List	HDMI-HDMI video cable (type A)*1, VGA-VGA video cable (DB15 pin, all-pass 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, 2.5mm ² WDZB-RYJ yellow-green grounding wire*2, LC-LC Single-mode fiber optic patch cord*1					