

KVM100H

Industrial-grade KVM Signal Long Line Driver

Transmitter(TX)



Receiver(RX)



Product Features

- HDMI video signal input, output
- Max. physical resolution 1920*1080
- USB-HID protocol pass-through without third party driver
- Excellent EMC electromagnetic compatibility performance
- Meet the use in the high altitude environment of 5500m

Product Overview

KVM100H 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, 3.5 mm stereo audio, HDMI video, 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 KVM100H is composed of a transmitter (TX) and a receiver (RX). The transmitter and receiver are designed with a compact structure, which is convenient to be installed on the operation 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
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
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	216*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				

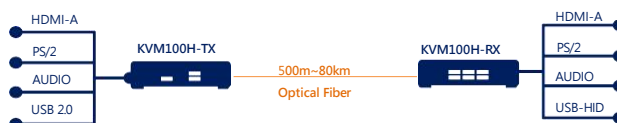
Environmental Parameters

Operating Temperature	-25~60°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



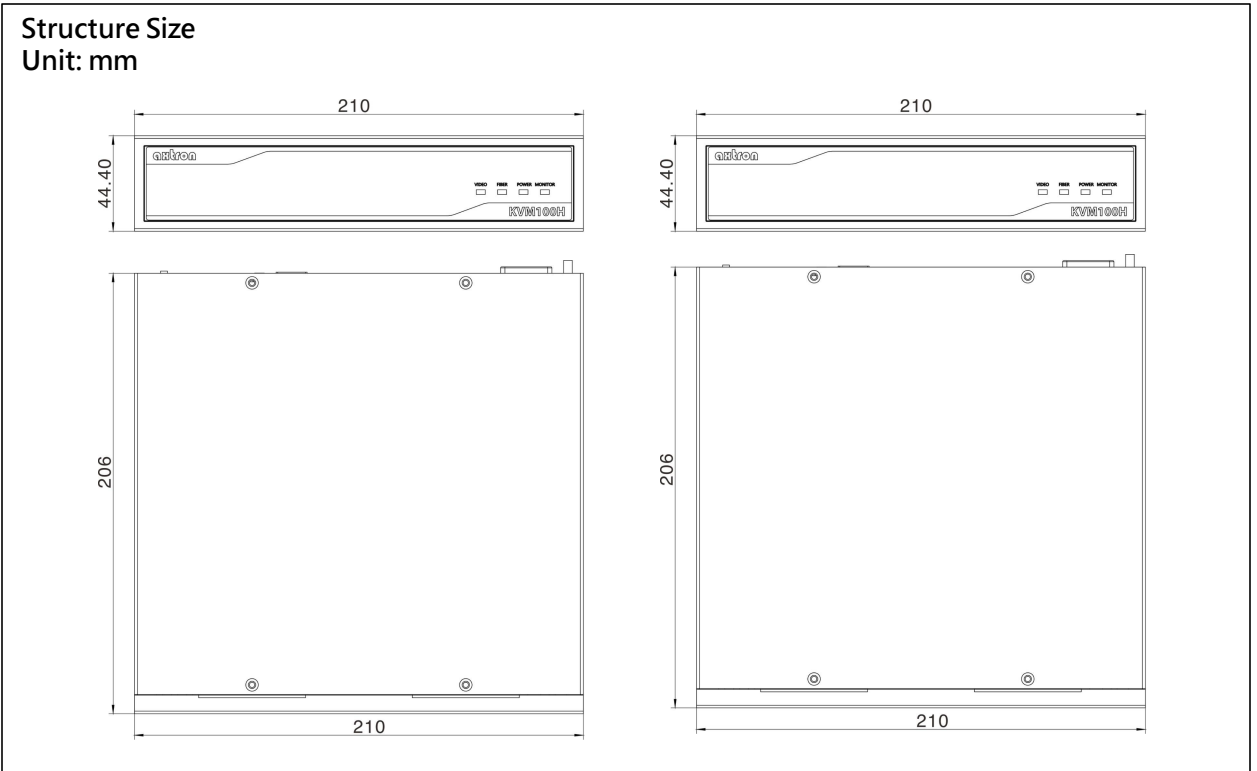
Equipment Room



Control Center

KVM100H

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
KVM100H	M202300102	1U Transmitter built-in functional module * 1, Receiver * 1, preset EDID, Maximum video resolution 1920 * 1080, Transmitter HDMI Input, Receiver HDMI (copy) Output, 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, 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					