KVM100F

Transmitter(TX)

Receiver(RX)

Product Features

- HDMI+DVI video signal input
- Receiver dual copy display output (HDMI+DVI)
- Max. physical resolution 1920 * 1200

- USB-HID protocol pass-through without third-party driver
- Excellent EMC electromagnetic compatibility performance
- Meet the use in the high altitude environment of 5500m
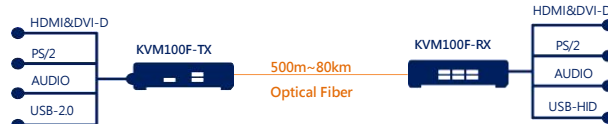
Product Overview

KVM100F is a desktop 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, DVI video, HDMI video, etc.) According to 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 KVM100F consists 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 physical resolution 1920 * 1200 (WUXGA)	1	HDMI Video Output	HDMI-A physical resolution 1920 * 1200 (WUXGA)	1
DVI Video Input	DVI-D physical resolution 1920 * 1200 (WUXGA)	1	DVI Video Output	DVI-D physical resolution 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
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				

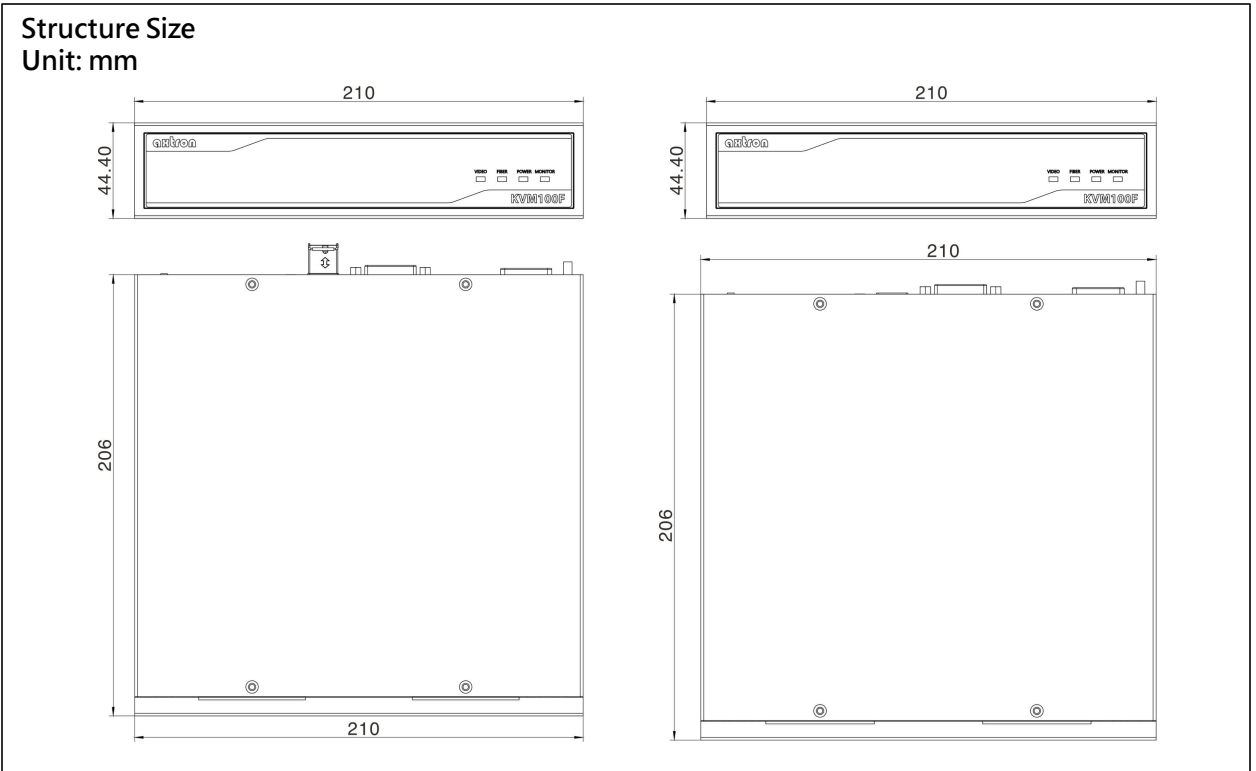| Environmental Parameters					
Operating Temperature	-25~60℃	Storage Temperature	-40~80℃	Vibration Shock	IEC 60068-2-6 1Grms
Humidity	5~95%@45℃ non-condensing	Altitude	≤5500m	MTBF	≥100000H
Product Certification	CE,FCC,KC,UL,PSE,UKCA,RoHS				

Application Scenario

HDMI&DVI-D
PS/2
AUDIO
USB-2.0

KVM100F-TX

500m~80km
Optical Fiber

KVM100F-RX

HDMI&DVI-D
PS/2
AUDIO
USB-HID

Equipment Room

Control Center

KVM100F

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
KVM100F	M202300101	1U Transmitter built-in functional module*1, Receiver*1, preset EDID, Maximum video resolution 1920*1200, Transmitter DVI+HDMI video input (Only one video input can be selected), Receiver DVI + HDMI dual display (copy) output, USB-HID 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, 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-RYJyellow-green grounding wire*2, LC-LC Single-mode fiber optic patch cord*1					