PAMIX

MCV-8100
VGA Video to Fiber Extender

PAMIX VGA to fiber optic extender transmit VGA audio & video signals for up to 120km distance. It support TCP/IP protocol for one to one or one to multi network by having Ethernet switch, infrared return transmission, independent audio transmission, KVM to control remotely signal source including TV IR box. It's widely used in many applications.

Main Features

Support maximum resolution 1920 X 1080 P @ 60Hz and lower

Support automatic phase detection, position calibration and gain calibration.

Support mutual communication, customer can have HDMI/DVI from one side while having VGA on other side.

Support KVM (Mouse & Keyboard)

Support reverse IR

Support one-to-one, one-to-many transmission through fiber Ethernet switch up to 250 points.

Independent analog audio

Support Single fiber & dual fiber over SM up to 120 Km

Built in ESD protection circuit for high quality videos

IP40 protection

Wall mount Installation

Plug and play, no need for configuration.

Specification

Video

Max Pixel Clock	148.5 MHZ
Resolution	480i/p 576i/p 720p @ 25/30/50/60 Hz 1080i @ 50/60 Hz 1080p @ 24/25/30/50/60Hz
Effective Cable Length	≤ 10 meters
Physical Interface	HD-15 Female VGA

Audio

Sampling Frequency	32K, 44.1K, 48K, 64K, 88.2K, 96K, 176.4K, 192K
Sampling Depth	24 bit
Dynamic Bandwidth	96dB
THD	-88dB
Audio In/Out Impedance	600Ω
Signal Level	VPP 3.3V
Interface	3.5mm stereo audio socket
Signal Type	Analog stereo channel

KVM (USB)

Version	1.1
Tx/Rx Interface	USB Female type A

IR

Interface	3.5mm
Frequency	20 - 60 KHz
Signal Type	Digital signal
IR Direction	Reverse

Optical

Interface	FC, SC, ST or SFP
Wavelength	1310/1550 nm
Fiber Type	Single Mode, Multi-Mode, single fiber
Distance	Maximum 120km

Power

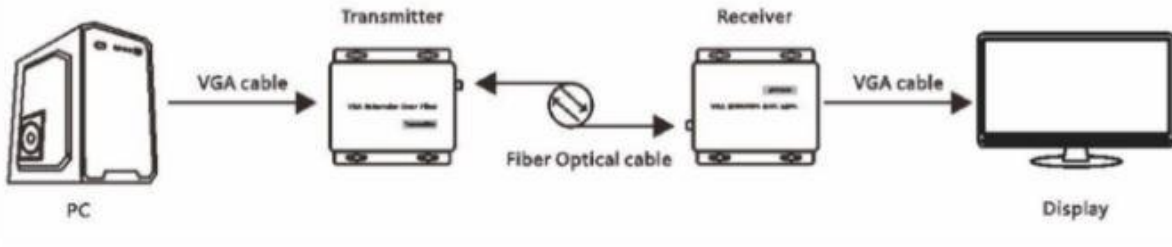|	
Input voltage	5V DC
Power Consumption	< 3.0W per each transmitter or receiver
Power Interface	DC Socket 2.5Ø mm
Power Adapter	Input: 100 – 240 V ac 50/60 Hz Output: 5V DC, 1A

Environmental

Operating Temperature	-20°C to 60°C
Humidity	5% - 95% noncondensing

Mechanical

Dimension	104 x 104 x 28 mm
Closure Material	Aluminum
Protection	IP40

One to One Multifunction

One to Multi
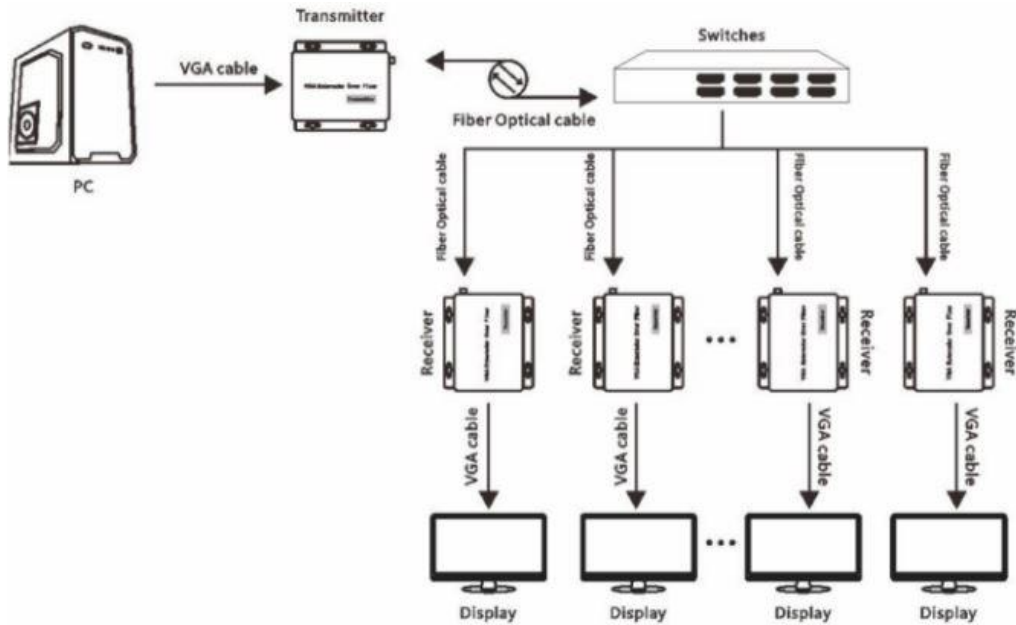
Ordering Information

Description	Article Number
PAMIX MCV-8100 VGA to Single Mode Fiber Extender Pair, VGA Video, KVM, 3.5mm audio, Revers IR.	5101001-xx
PAMIX MCV-8100 VGA to Single Mode Fiber Extender Pair, VGA Video, 3.5mm audio, Revers IR.	5101002-xx

* xx denotes optical connector: SC = SC connector, FC= FC connector, ST= ST connector, SF=SFP transceiver