VGA KVM USB, AUDIO, RS232 CAT5 Extender

ITEM NO.: VKM04 VGA & USB with Stereo Audio, RS232 CAT5 Extender

The VKM04 CAT5 extender design for extends all signals (VGA, USB, Stereo Audio, RS232, and IR) over one CAT5 cable instead of VGA, audio, RS232 cables, for an easy, neater and reliable installation.

The maximum transmission distance is up to 140 meters. with local VGA output.

It provides superior video quality up to 1920 x 1200 resolutions, and using cost effective Cat5e cable,

Using a standard Gigabit Ethernet LAN system could do multiple display.

It is optimized for applications at digital signage, home network integration, industrial control, hospital, education, security, and KVM extension.

Features:

- Extend VGA, stereo audio, RS232, IR and USB signals over one CAT5E/CAT6 cable.
- Supports up to 1920 x 1200@60Hz.
- Transmission range up to 120M over CAT5e, 140M over CAT6.
- Transmitter unit is built in VGA loop put.
- Support stereo audio extension for stereo speakers and microphone...etc.
- Support USB 2.0, USB 1.0 & USB 1.1 extension (Tx:1 port, Rx:4 ports). Ex. Flash/Hard disk, keyboard, mouse...etc.
- Support Full Duplex RS232 data communication.
- Support IR one direction extension, IR carrier frequency: 20-60K Hz.
- Plug and play for easy operation.
- Optional model: SR01 signal repeater for longer distance application.
- Optional model: IR-CR01 IR receiver cable for extending IR receiving operation distance.

Installation:

Note:

1. It is recommended to use high quality Cat.5e, Cat.6 UTP/STP/FTP cable.
2. The transmission distance may be decreased by the performance of input/output devices and installing environment.
3. For longer transmission distance, adding gigabit Switch or SC&T model. SR01 in between are recommended.

Installation with optional model SR01:

CAT.5e 1080p 120M (Max)   CAT.5e 1080p 120M (Max)

Transmitter   SR01 x n   Receiver

Optional Model: SR01 Signal Repeater

● Extend data signal for an additional 120meters.
● Application for VKM03 signals for extra long range transmission.
● Ability to cascade connection with multiple SR01 for long range transmission

LED Indication Status:

LED	LED color	LED status	Description
On	Green	Light	Power on
Link	Blue	Light	Linked
RJ45	Green	Flash	Data Transmitting
RJ45	Orange	Light	Connection Activity

RJ45 Pin Define:

Link Cable (TIA/EIA-568-B)

1. Orange-white	Data 1 +	5. Blue-white	Data 3 -
2. Orange	Data 1 -	6. Green	Data 2 -
3. Green-white	Data 2 +	7. Brown-white	Data 4 +
4. Blue	Data 3 +	8. Brown	Data 4 -

Bottom Switch & Button:

VKM03T-4K

Switch /Button	Function	↓	↑
1	Group	0	1
2	RS232	Normal	Reserved

VKM03R-4K

Switch /Button	Function	↓	↑
1	Group	0	1
2	RS232	Normal	Reserve
Button 1	Function Switch	MAC, IP, Baud rate, Updated EDID(Reserve)	
Button 2	Baud rate setting	115200, 57600, 38400, 19200, 14400, 9600, 4800, 2400, 1200	

Rotary Switch:

VKM04 built in rotary switch for pairing devices.
There could be total up to 32 pairs of devices set up in one Gigabit Switch by pair
and the rotary switch can be used to switch 0-F channel pairing with group setting of switch 1.
The channel number and group setting of the transmitter and receiver must be same to be connected each other,

total up to 32 (16 for each group) pairs could be setup at one switch.

Caution:

1.

Package Include:

VKM04T Transmitter x 1
VKM04R Receiver   x 1
IR emitter cable x 1
3.5mm Audio cable 80cm x 1
VGA cable 90 cm x 1
DC 5V 2Amp power adapter x 2

Specification:

ITEM NO.	VKM04T	VKM04R
Support Resolution	Up to 1920 x 1080 @ 60 Hz	
Transmission Distance	CAT5e: 120M, CAT6: 140M (Max)	
Video Input Signals	RGB Analog (75Ω, 0.7Vp-p) Sync Signal H/V Separated (TTL)	
VGA Connector	DB15 Female x 2	DB15 Female x 1
USB Connector	USB B-Type x 1	USB A-Type x 4
RS232 Connector	DB9(Female) x 1	DB9(Male) x 1
Audio Connector	3.5 mm Phone Jack x1	
Link Connector	RJ45 x 1	
Power Supply	DC 5V 2 Amp	
Power Consumption	1.1Amp	
Temperature	Operation: 0 to 55℃, Storage: -20 to 85℃, Humidity: up to 95%	
Dimensions mm		
Weight g	335	330

RoHS CE FC C

Rev. A