



# Long Range VGA PS2/USB Keyboard & Mouse Split Extender



**Model: VKMU1000-PS2** PS2 Connector  
**VKMU1000-USB** USB Connector

The VKMU1000-PS2/VKMU1000-USB extender includes a host unit (Tx) and a remote unit (Rx) which are connected by standard UTP cable. The host unit receives one channel VGA video and one pair of PS2/USB keyboard and mouse signals from the PC through combined cable using DVI interface. It provides one local VGA, KM outputs and one channel UTP output for transmission. The unit is powered through USB.

On the remote side, the remote unit receives one channel of UTP signal, and provides one port VGA output and one set of PS2/USB outputs for keyboard and mouse. The video quality can be adjusted manually with the built-in brightness and contrast adjusters with a resolution of up to 1600x1200 @ 60Hz for 500ft / 150m.

**Features:**

- Transmission distance of up to 1000ft / 300m.
- Transmission via UTP cable
- Extends VGA video, keyboard and mouse signals
- Real-time transmission
- Built-in brightness and contrast adjusters
- Power through USB in host unit and 12V DC only in remote unit
- High video resolution depends on the length and quality of UTP cable with standard resolution 1024x768 and up to 1600x1200 @ 60Hz.
- Exceptional interference rejection
- Built-in transient protection
- Multiplatform support: supports PC, Mac, Sun, and Linux systems.
- Supports VGA, SVGA, XGA, SXGA and Multi-sync monitors.
- OS Support: Windows 2000, Windows XP, Linux, Mac and Sun

**Components are Made In USA for this product:**

Name of Component	Manufacturer
Video Signal Disposal	Intersil
Data Communication	Sipex
LDO Power	ST Microelectronics

**Components are Made In Taiwan for this product:**

Name of Component	Manufacturer
Video Signal Disposal	NXP

**R&D Designed in Taiwan  
 Assembled in China**

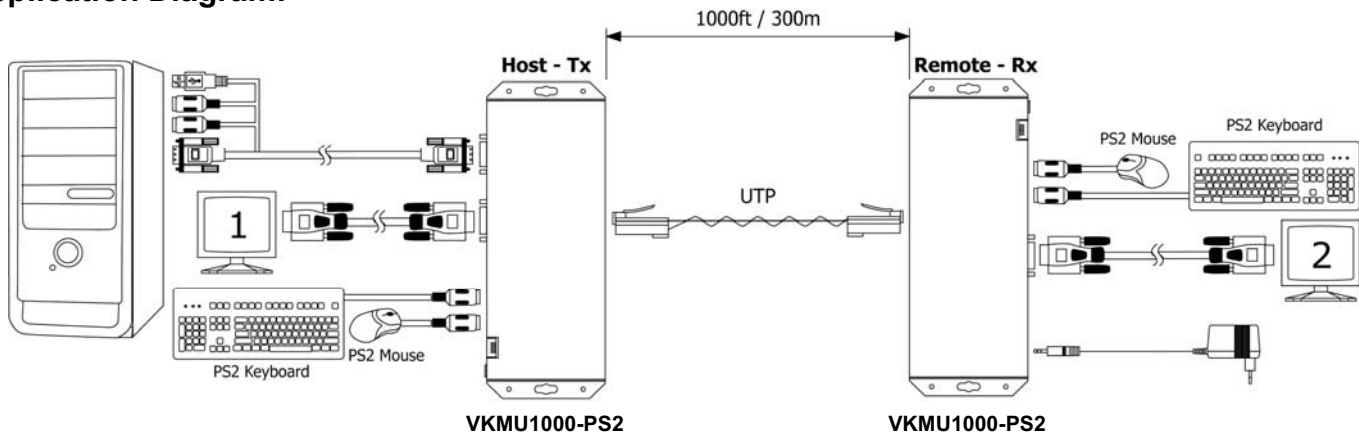


Host Unit - Tx



Remote Unit - Rx

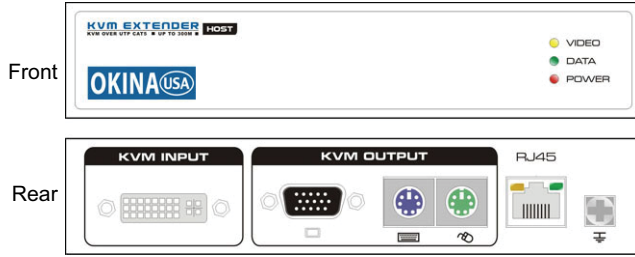
**Application Diagram:**



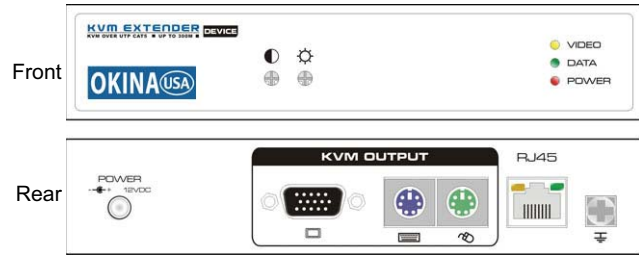
VKMU1000 -PS2/ VKMU1000-USB	Max. Distance via UTP Cable	Hz
800x600 pixels	1148ft / 350m	60Hz
1024x768 pixels	1000ft / 300m	60Hz
1280x1024 pixels	650ft / 200m	60Hz
1600x1200 pixels	500ft / 150m	60Hz

NOTE: The product picture, application diagram, and panel view graphics are for PS2 connector model only

## Panel View:



Host Unit -Tx



Remote Unit - Rx

## Specification:

### Host Unit - Tx

Model	VKMU1000-PS2	VKMU1000-USB	
<b>Power Properties</b>	Voltage	5V DC	
	Power Consumption	< 1.5w	
	Connectors	USB to DVI	
<b>Transmission Properties</b>	Signal Output Connectors	1 x RJ45	
	Signal Band	>350MHz (-3dB)	
	Transmitting Cable	UTP5/5E	
	Resistance	50Ω	
<b>Video Properties</b>	Video Input Connector	HDB to DVI Connector	
	Resistance	75Ω	
	Video Output Connectors	15 pin HDB Female	
	Resistance	75Ω	
	Synchronous Signal	0-5V,TTL PWL	
	Synchronous Signal Band	1K-200KHz	
<b>Surge Protections</b>	DDC	Supports DDC2	
	Video Output Protection	2KV (common mode), 10/700μs IEC6100-4 2/1955 (GB/T 1726, 5-1999)	
	Video Input Protection	2KV (different mode) 2KV (common mode) IEC6100-4 2/1955 (GB/T 1726, 5-1999)	
<b>Keyboard and Mouse Properties</b>	Video Input Protection for Over Current	100mA	
	Keyboard Input	PS2 6 Pin-DIN Female (Green)	USB
	Mouse Input	PS2 6 Pin-DIN Female (Purple)	USB
	Keyboard Output	PS2 6 Pin-DIN Female (Green)	USB
<b>Indicators</b>	Mouse Output	PS2 6 Pin-DIN Female (Purple)	USB
	Video / Data / Power	Green / Yellow / Red	
<b>Stability</b>	MTBF	>20,000h	
<b>Physical Properties</b>	Dimensions (LxWxH)	6.30" x 3.54" x 1.26" 160mm x 90mm x 32mm	
	Housing Material	Metal	
	The Color of Unit	Black	
<b>Weight</b>	Net Weight	1.43 lbs / 650 g	
<b>Environment</b>	Operating Temperature	32°F ~ 122°F / 0°C ~ 50°C	
	Relative Humidity (non-condensing)	10~85%	
	Storage Temperature	14°F ~ 176°F / -10°C~80°C	
<b>Accessories</b>	Cable	3.3ft / 1.0m, VGA, PS2/KM and USB to DVI Combination Cable	

R&D Designed in Taiwan

Components are Made in USA: Video Signal Disposal (Intersil), Data Communication (Sipex), LDO (ST Microelectronics)

Components are Made in Taiwan: Video Signal Disposal (NXP) Assembled in China

### Remote Unit - Rx

Model	VKMU1000-PS2	VKMU1000-USB	
<b>Power Properties</b>	Voltage	6-14V DC	
	Power Consumption	< 2.4w	
	Connectors	DC Jack	
<b>Transmission Properties</b>	Signal Input connectors	1 x RJ45	
	Signal Band	>350MHz (-3dB)	
	Transient Protection	1KV Common Mode (10/700μs) IEC6100-4-5	
<b>Video Properties</b>	Video Output Connectors	15 pin HDB Female	
	Resistance	75Ω	
	Synchronous Signal	0-5V,TTL PWL	
	Synchronous Signal Band	1K-200KHz	
<b>Surge Protections</b>	DDC	Supports DDC2	
	Video Output Protection	2KV (common mode), 10/700μs IEC6100-4 2/1955 (GB/T 1726, 5-1999)	
	Video Input Protection	2KV (different mode) 2KV (common mode) IEC6100-4 2/1955 (GB/T 1726, 5-1999)	
<b>Keyboard and Mouse Properties</b>	Video Input Protection for Over Current	100mA	
	Keyboard Output	PS2 6 Pin-DIN Female (Green)	USB
<b>Indicators</b>	Mouse Output	PS2 6 Pin-DIN Female (Purple)	USB
	Video / Data / Power	Green / Yellow / Red	
<b>Stability</b>	MTBF	>20,000h	
<b>Physical Properties</b>	Dimensions (LxWxH)	6.30" x 3.54" x 1.26" 160mm x 90mm x 32mm	
	Housing Material	Metal	
	Color of Unit	Black	
<b>Weight</b>	Net Weight	1.46 lbs / 653 g	
<b>Environment</b>	Operating Temperature	32°F ~ 122°F / 0°C ~ 50°C	
	Relative Humidity (non-condensing)	10~85%	
	Storage Temperature	14°F ~ 176°F / -10°C~80°C	
<b>Accessories</b>	Power	12V DC, 1A	
<b>Packing</b>	Box Size (LxWxH)	295mmx150mmx205mm	

\*Specifications are subject to change without notice

FCC CE RoHS

### ⚠ Caution:

- All devices must be properly grounded.
- Do not handle the unit with wet hands.
- The unit is not waterproof and should not be used outdoors.