

Long Range VGA PS2 Keyboard & Mouse Split Extender

Model: VKEPS21000

The VKEPS21000 extender includes a host unit and a remote unit which are connected by standard UTP cable. The host unit receives one channel VGA video and one pair of PS2 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 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 IC	Intersil
Data Communication IC	Sipex
LDO Power IC	ST Microelectronics

Components are Made In Taiwan for this product:

Name of Component	Manufacturer
Video Signal Disposal IC	NXP

R&D Designed in Taiwan
Assembled in China

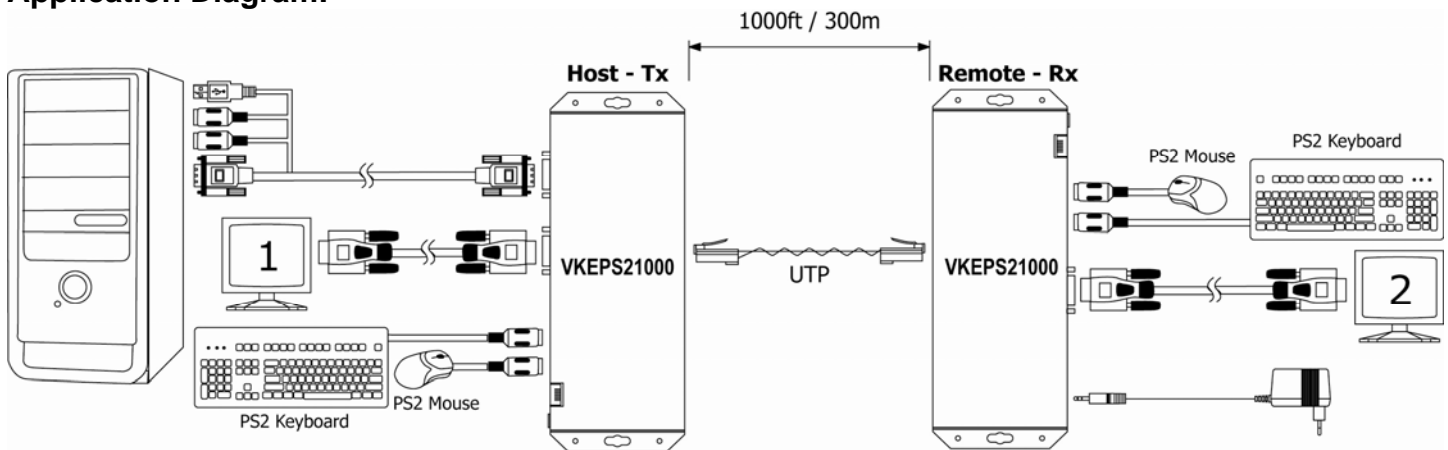


Host Unit - Tx



Remote Unit - Rx

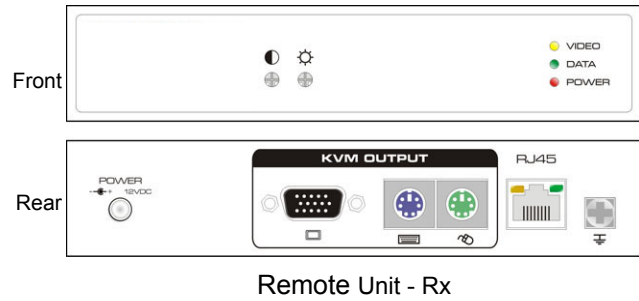
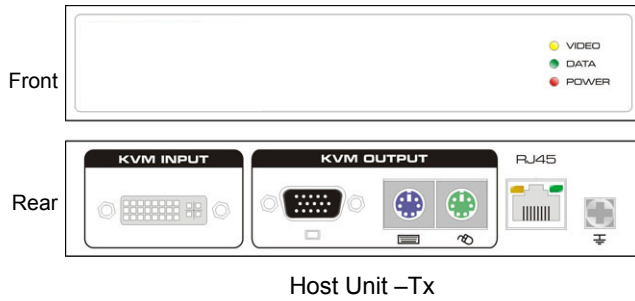
Application Diagram:



VKEPS21000	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

UTP = Unshielded Twisted Pair

Panel View:



Specification:

Host Unit

Model	VKEPS21000	
Power Properties	Voltage	5V DC
	Power Consumption	< 1.5w
	Connectors	USB to DVI
Transmission Properties	Signal Output Connectors	1 × RJ45
	Signal Band	>350MHz (-3dB)
	Transmitting Cable	UTP5/5E
	Resistance	50Ω
Video Properties	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
	DDC	Supports DDC2
Keyboard and Mouse Properties	Keyboard Input	PS2 6 Pin-DIN Female (Green)
	Mouse Input	PS2 6 Pin-DIN Female (Purple)
	Keyboard Output	PS2 6 Pin-DIN Female (Green)
	Mouse Output	PS2 6 Pin-DIN Female (Purple)
Indicators	Video / Data / Power	Green / Yellow / Red
Stability	MTBF	>20,000h
Physical Properties	Dimensions (L×W×H)	6.30" × 3.54" × 1.26" 160mm × 90mm × 32mm
	Housing Material	Metal
	The Color of Unit	Black
Weight	Net Weight	1.43 lbs / 650 g
Environment	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
Accessories	Cable	3.3ft / 1.0m, VGA, PS2/KM and USB to DVI Combination Cable

Remote Unit

Model	VKEPS21000	
Power Properties	Voltage	6-14V DC
	Power Consumption	< 2.4w
	Connectors	DC Jack
Transmission Properties	Signal Input connectors	1 × RJ45
	Signal Band	>350MHz (-3dB)
	Transient Protection	1KV Common Mode (10/700us) IEC6100-4-5
Video Properties	Video Output Connectors	15 pin HDB Female
	Resistance	75Ω
	Synchronous Signal	0-5V, TTL PWL
	Synchronous Signal Band	1K-200KHz
	DDC	Supports DDC2
Keyboard and Mouse Properties	Keyboard Output	PS2 6 Pin-DIN Female (Green)
	Mouse Output	PS2 6 Pin-DIN Female (Purple)
Indicators	Video / Data / Power	Green / Yellow / Red
Stability	MTBF	>20,000h
Physical Properties	Dimensions (L×W×H)	6.30" × 3.54" × 1.26" 160mm × 90mm × 32mm
	Housing Material	Metal
	The Color of Unit	Black
Weight	Net Weight	1.46 lbs / 653 g
Environment	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
Accessories	Power	12V DC, 1A
Packing	Box Size (L×W×H)	295mm×150mm×205mm

*Specifications are subject to change without notice

FCC CE RoHS

R&D Designed in Taiwan

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

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

Assembled in China



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.

UTP = Unshielded Twisted Pair