



KVMA Extender

Model: VAKMPU1000



The OK-VAKMPU1000 extender includes a host unit and a remote unit which are connected by standard UTP CAT5 cable. The host unit receives one set of PS2 keyboard, mouse, VGA video and audio, providing one set of local VGA & audio and two channels UTP output for transmission.

On the remote side, the remote unit receives two channels of UTP signals from host, and provides two sets of VGA and audio outputs 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.

The OK-VAKMPU1000 extender is ideal for remote control and display in broadcasting.

Features:

- Transmission distance of up to 1000ft / 300m.
- Transmission via UTP CAT5/5e
- Extends VGA video, audio, keyboard and mouse signals
- Real-time transmission
- Built-in brightness and contrast adjusters
- Power through USB or 12V DC 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 Multisync 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	ADI, Intersil
Data Communication	Maxim, Texas Inst, Exar
Power	On. Semiconductor
Analog Signals Disposal DCDC Power	National Semiconductor

R&D Designed in Taiwan
Assembled in China

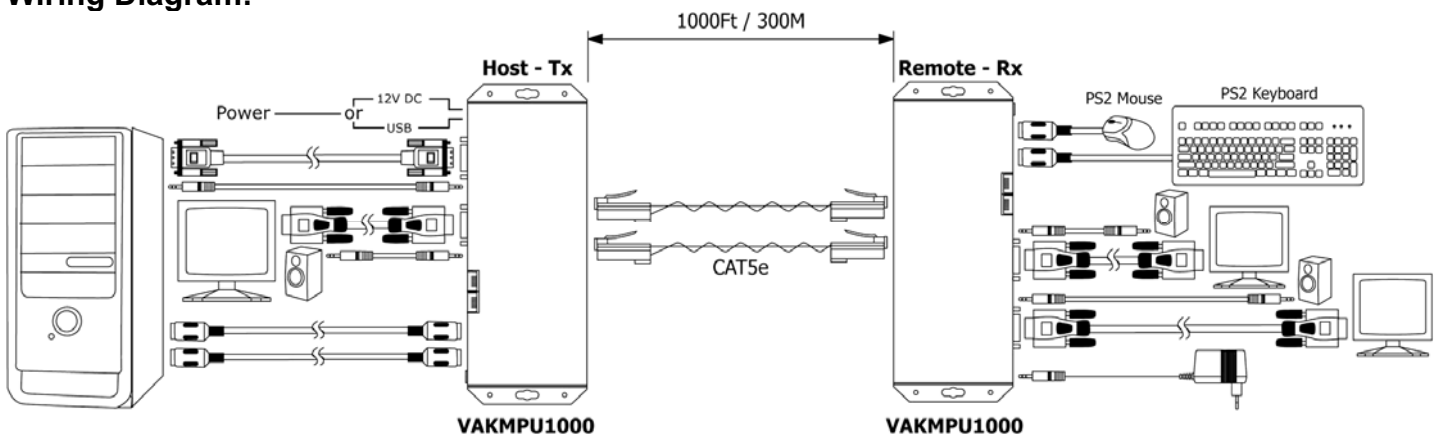


Host Unit - Tx



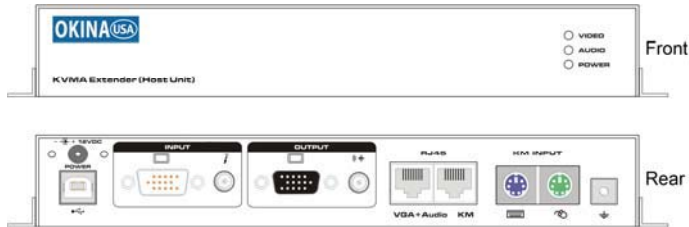
Remote Unit - Rx

Wiring Diagram:

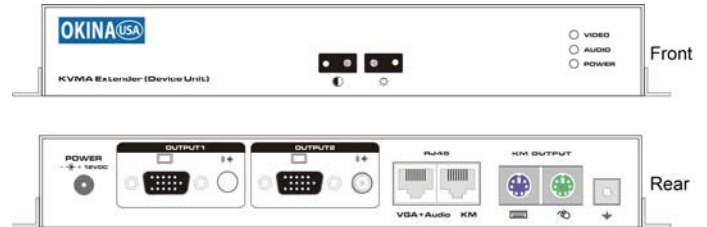


VAKMPU1000	Max. Distance via CAT5 Cable	Hz
800x600 pixels	1148ft / 350m	60Hz
1024x768 pixels	1000ft / 300m	60Hz
1280x1024 pixels	650ft / 200m	60Hz
1600x1200 pixels	500ft / 150m	60Hz

Panel View:



Host Unit - Tx



Remote Unit - Rx

Specification:

Host Unit

Model	OK-VAKMPU1000 (Host)	
Power Properties	Voltage	7-18V DC 12V DC Recommended
	Power Consumption	< 2.5w
	Connectors	DC Jack
Transmission Properties	Signal Output Connectors	2xRJ45
	Signal Band	>350MHz (-3dB)
	Transmitting Cable	UTP5/5E
	Resistance	50Ω
Video Properties	Video Input Connector	15 pin HDB Male
	Resistance	75Ω
	Video Output Connectors	15 pin HDB Female
	Resistance	75Ω
	Synchronous Signal	0-5V,TTL PWL
	Synchronous Signal Band	1K-200KHz
Audio properties	Input Connector	3.5mm Audio Jack
	Resistance	10kΩ
	Output Connectors	3.5mm Audio Jack
	Resistance	10-20KHz
Keyboard and Mouse Properties	Keyboard Input	PS/2 6 Pin-DIN Female (Green)
	Mouse Input	PS/2 6 Pin-DIN Female (Purple)
Indicators	Video / Audio / Power	Green / Yellow / Red
Stability	MTBF	>20,000h
Physical Properties	Dimensions (L×W×H)	210mm×90mm×33mm
	Housing Material	Metal
	The Color of Unit	Black
Weight	Net Weight	636g
Environment	Operating Temperature	0°C~70°C
	Relative Humidity (non-condensing)	10~85%
	Storage Temperature	-10°C~80°C
Accessories	Power	12V DC,1A; / USB-B
	VGA & AUDIO & USB Cables	1 x 1.0m ,USB-A to USB-B 1 x VGA and 2 x PS2 Cable 1 x 3.5mm Audio Cable
	Others	2 x Mounting Bracket, 4 x screws

Remote Unit

Model	OK-VAKMPU1000 (Remote)	
Power Properties	Voltage	12V DC
	Power Consumption	< 3.5w
	Connectors	DC Jack
Transmission Properties	Signal Input connectors	2 × RJ45
	Signal Band	>350MHz (-3dB)
	Transient Protection	1KV Common Mode (10/700us) IEC6100-4-5
Video Properties	Video Output Connectors	2 x 15 pin HDB Female
	Resistance	75Ω
	Synchronous Signal	0-5V,TTL PWL
	Synchronous Signal Band	1K-200KHz
Audio Properties	Output Connectors	2 x 3.5mm Audio Jack
	3.5 Audio Jack	Resistance: 600Ω Bandwidth: 10-20KHz
	8Ω Amplified Speaker	12W (30W Transient Maximal)
Keyboard and Mouse Properties	Keyboard Output	PS/2 6 Pin-DIN Female (Green)
	Mouse Output	PS/2 6 Pin-DIN Female (Purple)
Indicators	Video / Audio / Power	Green / Yellow / Red
Stability	MTBF	>20,000h
Physical Properties	Dimensions (L×W×H)	210mm×90mm×33mm
	Housing Material	Metal
	The Color of Unit	Black
Weight	Net Weight	636g
Environment	Operating Temperature	0°C~70°C
	Relative Humidity (non-condensing)	10~85%
	Storage Temperature	-10°C~80°C
Accessories	Power	12V DC,1A
	Others	2 x Mounting Bracket, 4 x screws
Packing	Box Size (L×W×H)	290mm×160mm×210mm

FCC CE RoHS

R&D Designed in Taiwan
Components are Made in USA
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.