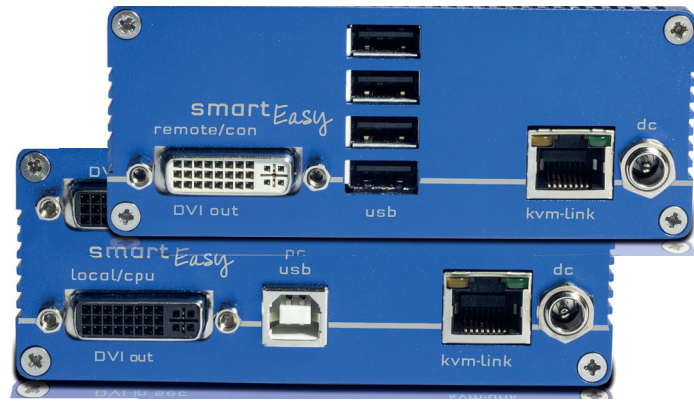# EASYLINE

smart
Easy

FULL HD - KVM EXTENDER OVER IP

Tune in the easy KVM World

KVM Extender over IP in single DVI, DVI-D,
KVM Extender USB in CAT x

smartEASY single is a highly optimized KVM Extender over IP for distances up to 150m/492ft at a resolution of 1920x1200@60Hz and is available in copper. smartEASY KVM extenders convince with an ultra flat housing - 4 dual units in 1RU (8 video streams), have embedded sound and are compatible with standard Network components. Video sharing, USB sharing, multihead.

... smartEASY single CATx

- DVI-D/ USB2.0 KVM Extender over IP
- single in copper/CATx
- max resolution
  1920 x 1200 @60 Hz
- max distance 150m/492ft
- 4 single smartEASY KVM Extender in 1 RU
- Sound embedded

- Full HD Videos in real time
- USB transmission time max 480Mbit/s
- only one cable for USB & Video
- for point to point or Matrix Switching Systems with Switch (Layer 3)
- DVI extension without loss of quality
- feature - freeze last image
- Local/CPU -Remote/CON Monitor Output

USB 2.0 in house development

The in-house developed USB 2.0 implemen-tation supports typical USB devices like touch screens, sound modules, printers and alike components. On top the support for memory devices such as thumb-drives and USB HDDs can be enabled or disabled on demand provi-ding another layer of security. And of course keyboards and mice are supported, too.

Infrastructure

Smarteasy locals and remotes are small form factor devices. They fit easily underneath a desk and up to four units can be mounted on a 19"- shelf. Single-sided interface orientati-on provides easy access in setup and service. They provide two power inputs for redundant feeding. MAXflex is designed fanless and with that noiseless for silent and ergonomic work spaces.

Bandwidth reduction
EASYline allows limiting the transmission bandwidth limitation in nine fix steps. This allows to ma-naged network utilization by reducing operational performance. Depending on the use case, this might not even have a recognizable impact (e.g. static image monitoring).

www.kvm-tec.com
V102022

Full HD
over IP

smartEASY single copper/CATx
part. KT - 8111

smart Easy

All in one go

Matrix Switching Systems up to
56 endpoints without Usersystem

Bridging - Easy Switching without Switch

With **Frontbridging** 2 Local EASYline Extenders can be bridged to 1 remote dual Extender (2 network sockets) & thus one or two screens can display the contents of the PCs simultaneously with different images and can be operated either right or left.

2 local single Unit + 1 remote dual Unit = Bridging on 1 or 2 Screens

With **Backbridging** from one dual local extender can be shared to two single remote extenders. For all applications that require monitoring at different locations 1 dual local Unit + 2 remote Units = Bridging oder Sharing auf 1 oder 2 Monitore

Easy cross move in Bridging Mode - Softwarefeature
both PCs can be operated with one mouse and one keyboard

2 local Units + 1 dual remote Unit = Easy Cross Move with 1 keyboard & 1 mouse
In USB transparent the PC can be changed with a shortcut.
In Emulation Mode uninterrupted switching between the PCs with the mouse.

Latency (encoding/decoding)
<1,38 ms

For each meter of transmission additional 5ns of signal propagation need to be added. 200km result in 1ms accordingly. Latencies caused by network switch topologies vary by type and manufacturer and overall configuration and need to be counted on top!

9-Step bandwidth fix reduction (1: no – 9: max reduction)

Image Change (Frame to Frame) (%)	average bandwidth [Mbit/s] with fix r eduction
5	50
10	100
25	250
50	470
75	950
100	950

With bandwidth reduction the frame rate is reduced.
Via level 5, the color accuracy is additionally the color accuracy is slightly reduced

kvm-tec over IP
on ïhse.company

www.kvm-tec.com

smartEASY single copper/CATx
part. KT - 8111

smart **Easy**

Technical Specifications

		SE1 Local/CPU	SE1 Remote/CON
Interfaces	Video USB 2.0	1 x DVI-D in 2 x DVI-D out 1 x USB-B to PC	1 x DVI-D out 4 x USB-A (devices)
Audio	Type Bandwith	embedded 16bit, 44kHz, 2 ch	embedded 16bit, 44kHz, 2 ch
Video	Signal type: resolution (digital): Color mode: Resolution (analog opt) Color mode	DVI-D max. 1920x1200 @ 60Hz DVI-I max 1920 x 1200 @60 Hz 24 Bit	DVI-D max. 1920x1200 @ 60Hz
Network interface		RJ45	RJ45
USB	Specification: Type: Rate:	USB 2.0 transparent max. 480 Mbit/s mass storage & camera	USB 2.0 transparent max. 480 Mbit/s mass storage & camera
Case & weight	Material Dimension (w x H x D) Weight Shipping weight SET 1895 g /4.17 lb	anodized aluminum 108 x 43 x 107,5 mm 4.25 x 1.69 x 4,23 inch 295 g / 0.65 lb shipment weight 1005g/2,21 lb	anodized aluminum 108 x 43 x 107,5 mm 4.25 x 1.69 x 4.29 inch 295 g/ 0.65 lb shipment weight 890 g/ 1.96lb
Network Interface		RJ45	RJ45
Compression factor		3.5 depending on image content	3.5 depending on image content
Power supply	Type	external power supply 12 VDC 1A max 35 V barrel connector 2.1.mm	external power supply 12 VDC 1A max 35 V
Power input	Operation	6W	6W without USB devices Example: a typical keyboard has a power consumption of 0.2 W
Operation environment	Temperature Humidity	0 to +45 °C /32 to 113 °F < 80%, non- condensing	0 to +45 °C /32 to 113 °F < 80%, non condensing
Storage environment	Temperature Humidity	-25 to 80 °C /-13 to 176 °F < 80%, non condensing	-25 to 80 °C -13 to 176 °F < 80%, non condensing
Cooling		free air convection	free air convection
MTBF		82.820 calculated hours approx 10 years	82.820 calculated hours approx 10 years
Conformity		CE, FCC	CE, FCC
Warranty		2 years (flexible warranty extension optional)	2 years (flexible warranty extenseion optionals
Delivery content	Devices Power supply Cables Mounting Manual	1 x SE1 local (CPU) 1 x wall power supply 12V 1A EU-plug or INT Plug 1 x DVI - DVII cable 1,8m/5,9ft 1 x USB cable 1,8m/ 5,9 ft 4 x rubber feet Quickinstallation manual download: www.kvm-tec.com	1 x SE1 remote (CON) 1 x wall power supply12V 1A (EU-plug) 4 x rubber feet

Upgrades opt
- USB Memory

www.kvm-tec.com

smartEASY single copper/CATx
part. KT - 8111

Part Number& Short description

Part.Nr	Kurzbezeichnung	short description
KT - 8111	SE1-SET	smartEASY KVM Extender Single – Set EAN 0798190109886 UPC 51497113667
KT - 8111L	SE1L	smartEASY KVM Extender Single –Local Unit (CPU) EAN 51497113674 UPC 51497113674
KT - 8111R	SE1R	smartEASY KVM Extender Single –Remote Unit (CON) EAN 0798190109909 UPC 51497113681
KT - 8147	SE-MO	SE-MO USB Memory upgrade EAN 0798190112190 UPC 51497115555
KT - 9003 KT - 9002	GV5JU GV5J	Warranty extension to 5 years per UINIT Warranty extension to 5 years per SET
ADD-ONS KT - 6231	UMK-EASY	Rack Mounting Kit for under the table for EASYline *EAN 0798190109466 UPC 051497113247*
KT - 6232	RMK-EASY-F	Rack Mounting Kit with front panel for EASyline EAN 0798190109473 UPC 051497113254
KT - 6233	RMK-EASY-FN	Rack Mounting Kit with front panel and Power supply EAN 0798190109480 UPC 051497113261
KT - 6234	RMK-EASY	**Rack Mounting Kit with front panel and redundant Power supply for EASyline** EAN 0798190109503 UPC 051497113285EAN 0798190109503 UPC 051497113285
KT - 6235	DINMK-EASY	Din Rail Mounting for EASYline EAN 0798190109510 UPC 051497113292
KT - 6236	VH -EASY	Vesa Mounting Kit for EASYline EAN 0798190109527 UPC 051497113308
KT-7070 KT-7080	TNT40 TNT100	Din Rail power supply DN40-12 Din Rail power supply DN-100-12

point to point

switching system

Misprints, errors and technical changes reserved