

# AVT EMC USB Converter

elektro-optical USB-Converter  
especially for EMC and test laboratories,  
as well as general applications



**MADE IN GERMANY**

## ➤ **USB 1.0 - 3.0 Converter**

- USB-device types 1.0 - 2.0 and 3.0
- maximum transmission data rate up to 5 Gbit/s
- full data transparency (no driver dependency)
- power supply for EUT with 5 V / 3 A / 15 W
- power supply device with 85 - 250 VAC / 47 - 63 Hz
- wide temperature range
- data transmission and control with fiber optic cable
- variants of fiber cable length 10 m / 20 m / 30 m / 50 m / 70 m / 100 m
- high interference immunity > 100 V/m

### Options:

- higher interference immunity

Ordering informations

AVT - EMCUSB - Conv - 3 - 01

USB device

Converter

USB version  
2: USB 2 socket A  
3: USB 3 socket A  
3C: USB 3 socket C

device version

Example: AVT-EMCUSB-Conv-3-01

Technical specifications

Converter

USB compatibility	USB 1.0, 1.1, 2.0	USB 3.0
maximum data throughput	5 Gbit/s	5 Gbit/s
data transparency <sup>1</sup> (no driver dependency)	x	x
length of fiber optic cable	10 m, 20 m, 30 m, 50 m, 70 m, 100 m	10 m, 20 m, 30 m, 50 m, 70 m, 100 m

Electrical connection

	min	max
voltage range	85 V	255 V
AC frequency range	47 Hz	63 Hz
AC input current (typ.)	0,25 A / 230 VAC	0,35 A / 115 VAC
output values to EUT	5 V / 3 A / 15 W	
voltage tolerance	± 2 %	
efficiency (typ.)	77 %	
Inrush current (typ.)	65 A / 230 VAC	
Leakage current	< 2 mA / 240 VAC	
operating temperature range	-10°C ... 55°C	

Protection

overload	above 105 % rated power (Hiccup mode)
over voltage	5,75 V - 6,75 V
over temperature	shut down voltage / automatic covery

Size

length of housing without connections	200 (USB 1 - 2), 160 mm (USB 3)
width	105 mm
heigth	54 mm
weight	270 g

Contact

Subject to errors and changes.

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