

ImageCutter120

New
ImageCutter120

ImageCutter120 and ImageHub120 put PC-Graphics and Video to integrated Dashboard Displays

The ImageCutter 120 can adjust a variety of input signals e.g. regarding the timing to control vehicle integrated displays. With the appropriate ImageHub120 that can be fed into for the vehicle display.

For this purpose the PC input signal is selectively cut, extended, stretched or compressed to achieve the required vehicle-resolution. A WXGA signal with 1440x900 (16:10) dots coming from the PC, will be tailored e.g. to 1440x540 pixels (8: 3) to achieve a pixel-accurate representation of this section.

The DVI and VGA inputs of ImageCutter120 are galvanically separated from the PC video signals in order to avoid ground loops - this is ideal for measurement applications. The transmission of high-resolution video signals from a ImageCutter120 to a ImageHub120 is achieved via an RF cable with automotive HSD 4 + 2 connectors.

The ImageCutter120 features a compact aluminum enclosure and can be accommodated in the luggage compartment and the even smaller ImageHub120 beside the vehicle display.

Applications:

- Displaying measurement data in R&D vehicles
- Developing new Man-Machine-Interfaces
- Building concept cars with exotic TFT formats

- Generates output timing for dashboard display
- Galvanically separated DVI/HDMI- and VGA-input up to WXGA+ @75 Hz
- Wide supply range 9..36VDC, polarity-protected
- Adaption to vehicle interface via ImageHub120



Nickl Elektronik-Entwicklung GmbH
Eisackstraße 22 86165 Augsburg Germany
Tel +49/821/450344-0
Fax +49/821/450344-49



Elektronik-Entwicklung

www.nickl.de

Displays are our
business...

ImageCutter120

Technical Data

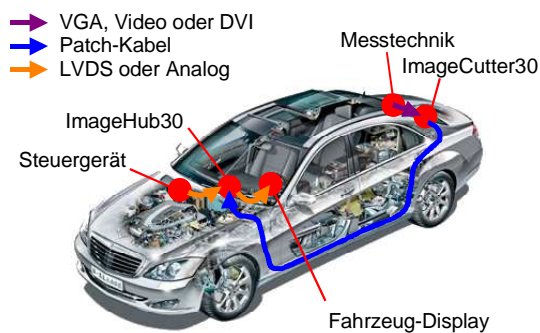
| | |
|-----------------------|---|
| Video Inputs | DVI / HDMI and VGA: with the resolutions DOS-text, VGA..WXGA+ @ 56..75 Hz |
| Output Timings | Self configuring at boot-up with data held in the ImageHub120 |
| Output Signal | Supply and communication interface for ImageHub120 via APIX2, AC-coupled, up to 120MHz dot clock, |
| Connectors | 1. DVI-I receptacle for PC graphics DVI / HDMI & VGA 2. HSD 4+2-pin receptacle for ImageHub120 3. USBmini type B receptacle for VTI-Config tool / commands 4. D-Sub 5-pin connector for power supply (IC120 + IH120) |
| Power Supply | 9..36 V galvanically de-coupled, polarity save |
| Dimensions | (171 x 111 x 32) mm ³ w/o connectors |
| Case | Aluminium profile, black anodized, front panels black |
| Operating temperature | approx. -20..+60 °C |
| Storage temperature | approx. -25..+90 °C |
| Mass | 570 g |

Accessories

- 1EZKA-DS181DS181-2m/5m/7m
DVI cable, 2x DVI connectors (IC120 + PC), L=2m, 5m or 7m
- 1EZKA-DS181HS19-3m/5m
HDMI cable, DVI 18+1 Single Link (IC120), HDMI 19-pin (PC), L=3m or 5m
- 1EZKA-DS245HS15-2m/5m
VGA cable, DVI connector (IC120), VGA/D-Sub15HD connector (PC), L=2m or 5m
- 1EZKA-USBAS-USBBminiS-2m/5m
USB cable for configuration/control, Mini-USB-B (IC120), USB-A connector (PC), L=2m or 5m
- 1EZKA-DB5BAN2-2m/5m/7m
Power supply cable with D-Sub-5 and banana plugs L=2m, 5m or 7m
- 1EZPAS-DB5
Power connector, D-Sub5 high-current, receptacle for soldering

Order Codes

- 1EMIC120
ImageCutter120, main unit for accurate vehicle display control, with DVI-I (HDMI compatible) incl. VGA input, up - Further variants on request -



Beispiel eines Systemaufbaus

