ImageHub30

New

ImageHub30 puts PC-Graphics and Video to integrated dashboard displays of various vehicles by utilizing the ImageCutter30

Together with the Nickl ImageCutter30, the ImageHub30 is able to put images to the dashboard display of various vehicles. The ImageHub30 gets its signal from the ImageCutter, which has already tailored the signal timing to the needs of the specific car interface. The ImageHub30 does the physical adaption. For savety purposes, the original image can be displayed alternatively. E.g. safety-relevant information can be displayed at critical situations.

The supply of the very compact Nickl ImageHub30 comes from the ImageCutter30, easing the integration into the target car.

Transmission of the signals between the ImageCutter and the ImageHub is done via standard patch cables known from the network technique. By AC coupling, a DC decoupling of the ImageCutter and ImageHub is achieved, allowing potential differences which may be present between the front and the rear area of the wiring harness.

Applications:
  Displaying measurement data in testing vehicles
  Developping new man-machine interfaces
  Building concept cars with exotic TFTs

- Adaption to interfaces of various vehicles
- Flexible mounting due to small dimensions
- Multiplexing between original image and PC/Video image
- DC De-coupling of ImageHub30 and ImageCutter30
- Obtains supply from ImageCutter30

Displays are our business...

ImageHub30

Common Properties	ImageHub30 receive data from ImageCutter30 via standard patch cable
Output Multiplexer	Output selectable for viewing DVI/HDMI/VGA- video signals from a computer or a CVBS/S-Video source via ImageCutter30 or the original car control unit video signal
Properties 1EMIH30-DC005	2x GMSL-Links AC-coupled for Mercedes NTG5-Combi-Instrument (centric 960x540-fade in to 12,3" Combi display) socket: 4-pol. HSD white, GMSL IN from NightVision-control unit coming socket: 4-pol. HSD white, GMSL OUT to NightVision IN to Combi outgoing
Properties 1EMIH30-BMW003-xxxx	2x APIX1/APIX2-Links AC-coupled for BMW NBT-displays (8.8" or 10,25", 1280x480 pixel) socket: 4+2-pol. HSD claret-red, APIX1 IN from control unit coming socket: 4+2-pol. HSD claret-red, APIX1 OUT to CID outgoing
Properties 1EMIH30-POR002	2x FPD-Links AC-coupled for Porsche 9x1-II & Macan & Cayenne MIB2-ABT-display (7.0" 800x480 pixel) socket: 4-pol. HSD black, FPD-Link IN from MIB control unit coming socket: 4-pol. HSD blue-grey, FPD-Link OUT to display outgoing
Power Supply	from ImageCutter30 via RJ45-cable or form "Alternate Power In" input via 12-pin SMC/Erni plug at 9..36VDC
Dimensions B x H x T	approx. (104x105x30)mm^3 without HSD-connector overlap
Case	Aluminium, silver/black
Operating temperature	approx. -20..+60 °C
Storage temperature	approx. -25..+90 °C
Mass	approx. 300 g
Supported vehicles	see: http://www.nickl.de/Products/CarImaging/VehicleList/?lg=de

1EZKA-RB4BRB4B-1
NTG5/GMSL cable, 2x 4-pin HSD socket straight, L=1m

1EZKA-RB4Du2RB4Dr2-1.5
NBT CID control unit to ImageHub30 connecting cable, L=1.5m

1EZKA-RB4AsRB4G90cu-1
MIB/FPD-Link cable for MIB2-ABT-displays (e.g. 7.0" 800x480 pixel), L=1m

1EZKA-2xRJ45S-x-BLU
2 x RJ45 cable, blue, 8-pin, shielded, several length

1EMIH30-DC005
Daimler NTG5, e.g. for W222 Combi off 2012, 2-wire GMSL-input & output, centric 960x540 fade in as at
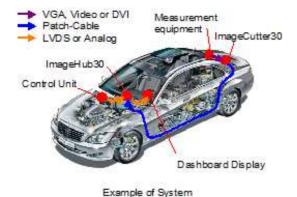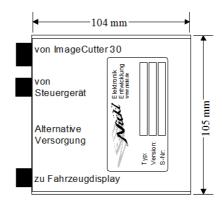
1EMIH30-BMW003-CID-HIGH
BMW NBT-(CIC-High/APIX1) displays e.g. for F30/F31 (3er) or F20/F21 (1er) (default timing for: CID:

1EMIH30-POR002
Porsche 9x1-II & Macan & Cayenne MIB2-ABT-display (7.0" 800x480 pixel) 1x 2-wire FPD-Link III IN / 1x 2-wire

- Further variants on request -

Example of System

Nickl
Elektronik-Entwicklung
www.nickl.de

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