

AVD 1042

AUTOMOTIVE VIDEO TEST DEVICE

FPDLINK 3&4 DESERIALIZER



PRODUCT

Application Areas: R&D, Production, Test, Validation and Screening

FEAUTRES AND HIGHLIGHTS

AVD 1042 is an off-the-shelf solution for FPDLink 3/4 an automotive video bus. In combination with our software tools, AVD 1042 allows for rapid testing of various automotive video components such as Central Information Displays (CID), Rear Seat Entertainment (RSE), Digital Instrument Clusters, Head Units and HMI Modules, Head Up Display (HUD) and Rear View and Side Mirror Displays



AUTOMOTIVE VIDEO TEST DEVICE
FPDLink 3&4 DESERIALIZER

DISPLAYPORT(DP) TRANSMITTER

- › VESA DP v1.4a
- › HBR3/HBR2/HBR/RBR Link Bit Rates
- › Main Link: 1, 2, or 4 lanes
- › Each lane up to 8.1Gbps
- › AUX CH 1Mbps
- › Hot Plug Detect (HPD)
- › Extracts Aggregated Video Streams to Local
- › DP Display
- › Suitable for 4K @ 60 Hz Video Resolution
- › Stream Synchronization and Splitting

FPD-LINK IV INTERFACE

- › 13.5/12.528/10.8/6.75/3.375 Gbps per Channel
- › Up to 27 Gbps over Dual Channels
- › Coax 50Ω/STP and 50Ω SE/100Ω DIF Variants
- › Selectable 1 or Dual Channel
- › Daisy-Chain & Splitting

INTERFACES

FPDLink	Industrial grade connectors
PC Communication	Ethernet (RJ 45)
Reset	Button Additionally, software triggerable

POWER REQUIREMENTS

Voltage	12-24 VDC
Current (max.)	1 A

PHYSICAL SPECIFICATIONS

Dimensions	105mm x 36mm x 105mm (L x H x W)
Weight	300g

BACKWARDS COMPATIBILITY

- › 720p 92x and 1080p/2K 94x FPD-Link III Product Families

SECURITY AND DIAGNOSTICS

- › Voltage and Temperature Monitoring
- › BIST and Pattern Generation
- › CRC and Error Diagnostics

AVAILABLE SOFTWARE AND DRIVERS

- › NI TestStand 2020 API
- › NI LabVIEW 2020 API 64bit
- › Web Interface
- › .NET DLL

