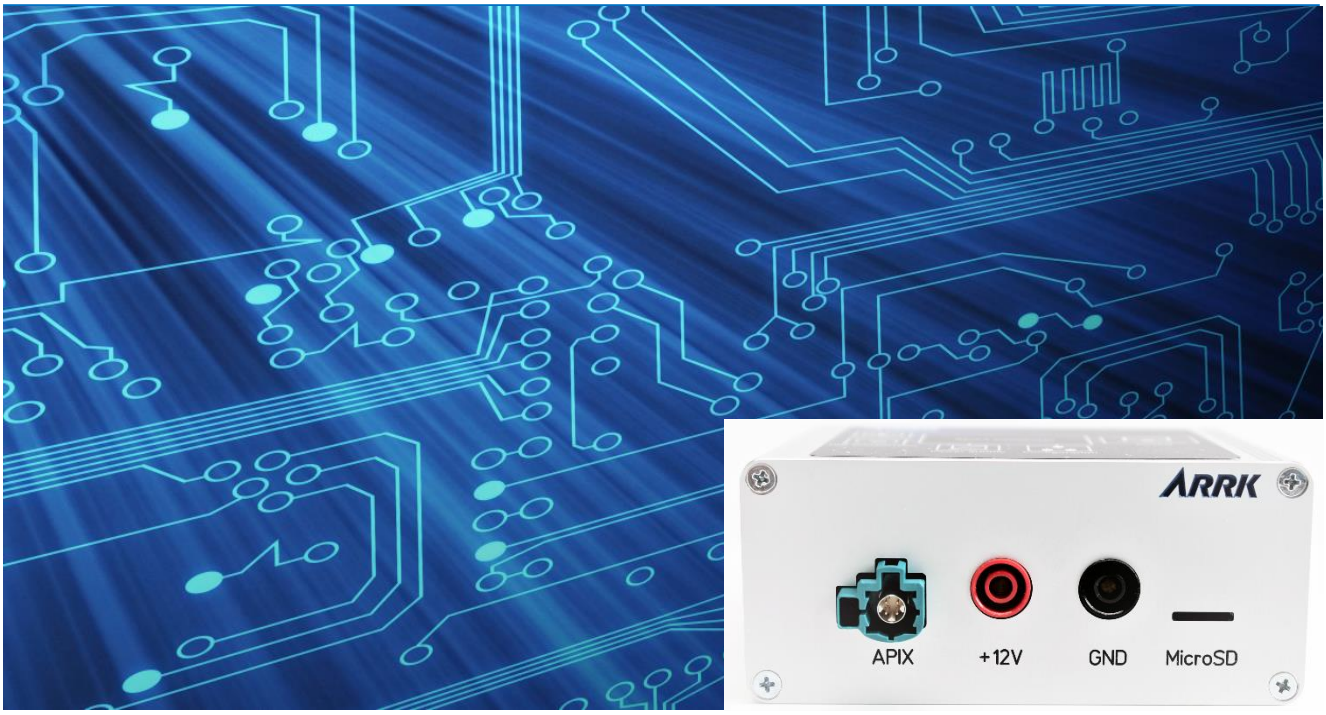
APIX3 Konverter



Flexible video converter

for conversion from HDMI to APIX3

The ARRK APIX3 Converter allows video signals from an HDMI source to be displayed on APIX3-compatible display devices. Both image and control data can be transferred. The resolution of the HDMI interface can be automatically or manually adjusted to the APIX3 display.

The ARRK APIX3 Converter eliminates the need for a complex test station setup to operate an APIX3-compatible display device. Instead, a computer connected to the converter, for example, can directly display image content on the display device and be controlled by touch input. The ARRK APIX3 Converter is therefore ideally suited for presentations, use in seating boxes and demonstrators or for test purposes.

Furthermore, the ARRK APIX3 Converter supports early design phases and thus reduces costs for test setups and valuable development time. For example, graphics and designs can be displayed directly on an APIX3-compatible display in an early development phase, even if the central control units are not yet available.

The ARRK APIX3 Converter already supports a wide range of displays. We can provide further configurations on request.

The ARRK APIX3 Converter is additionally downward compatible to the APIX2 interface.

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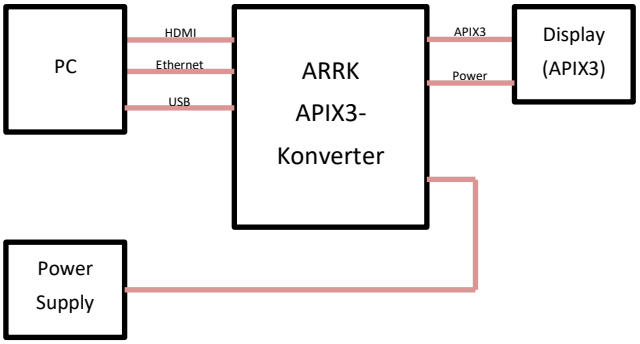
Block Diagram

Video data is forwarded to an APIX3-compatible display device via an HDMI signal. The Ethernet interface accepts previously defined control signals.

Touch information can be exchanged via the USB HID or Ethernet interface.



Application Example

The ARRK APIX3 Converter can forward the video data from a normal PC to an APIX3-compatible display via the HDMI port

Absolute Maximum Ratings

Parameter		Unit	Min	Typ	Max
Dimensions	Width Height Depth	mm		105 46 80	
Weight		kg			0.25

Parameter	Unit	Min	Typ	Max
Operating temperature	°C	5	-	50
Storage temperature	°C	-20	-	85
Supply voltage	VDC	12	-	16
Power consumption (without Display)	W	-	-	3,6
APIX HSD+2 switchable power	W	-	-	36

Typical Operating Conditions

Parameter	Einheit	Min	Typ	Max
Operating temperature	°C	-	23	-
Supply voltage	V DC	-	12	-
Power consumption	W	-	2,7	-

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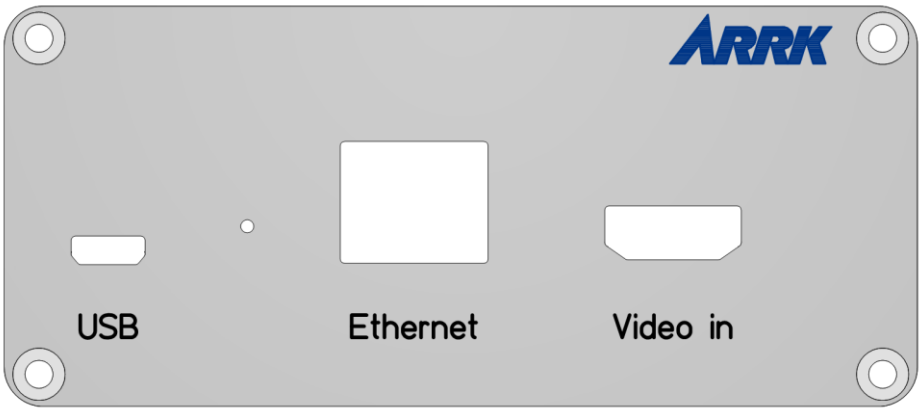
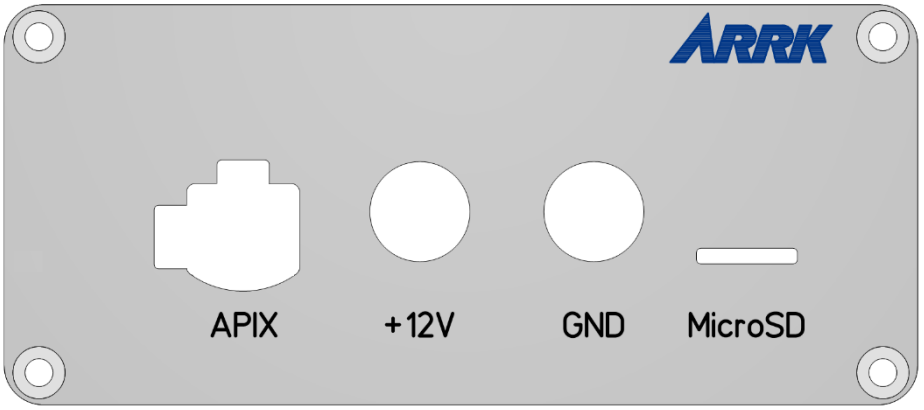
Front View

- Standard Micro-USB
- Type B connection
- Standard RJ45 Ethernet connection
- Standard HDMI connection



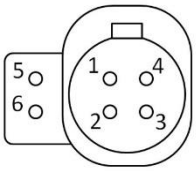
Rear View

- APIX3 interface
- Power Supply 12V nom.
- Standard 4-bit SDIO MicroSD card



APIX3 Interface

- Fully compatible with APIX3,
- backwards compatible with APIX2
- HSD+2 plug connectors
- Coding: Z - Water blue
-



Pin Number	Label
1	TX Data 0 N
2	TX Data 1 P
3	TX Data 0 P
4	TX Data 1 N
5	VCC Out (corresponds to supply voltage)
6	GND

- **Supply connector**
- Standard 4mm lab safety plug

Pin Number	Label
Red	V DC
Black	GND

APIX3 Konverter

Accessory HSD+2 Cable

- HSD+2 to HSD+2
- 3 meters, other lengths on request
- Optimized for APIX3 data rate

Accessory HSD+4 Cable

- HSD+4 to HSD+2 incl. 4mm lab connectors
- 3 meters, other lengths on request
- Optimized for APIX3-data rate
- Fully insulated lab connectors