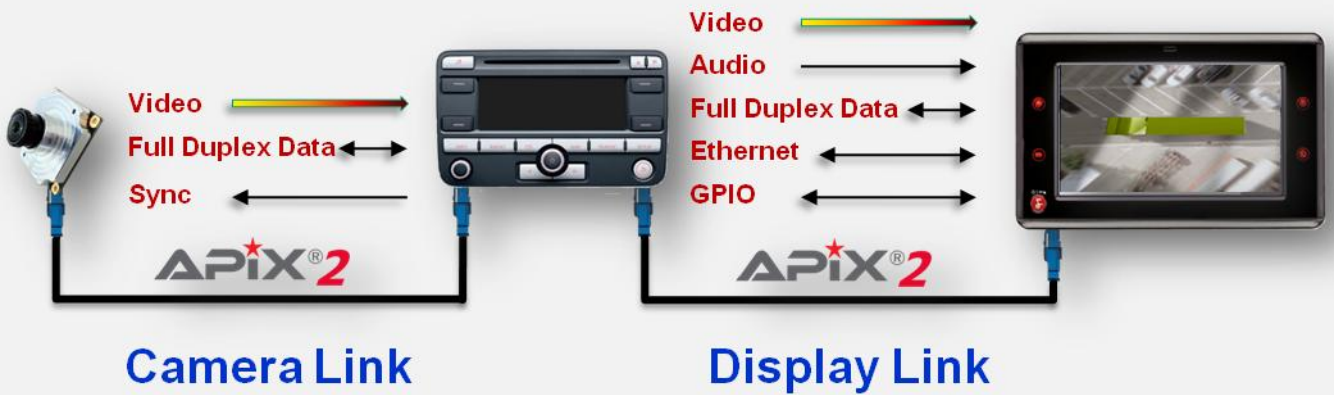


3 Gbit/s Full Duplex Communication Over One Cable



Applications

- Central Information Displays
- Instrument Clusters
- Rear-Seat Infotainment Systems
- Head-Up Displays
- Lane Departure Warning
- Occupancy Detection
- Sign Recognition Camera
- Blind Spot Detection
- Round View Systems
- Rear View Camera

HD video resolution

Two independent video streams

full duplex data communication

CRC protected data transfer (AShell)

Ethernet support

daisy chaining support

Bulk data mode

Power over APIX



High Definition Video In The Car



APIX 2 link with daisy chaining

APIX Features:

- Full APIX 1.0 backward compatibility
- 500 MBit/s, 1000 MBit/s and 3000 MBit/s sustained downstream link bandwidth
- 187,5 Mbit/s upstream link bandwidth
- 2 independent video channels
- Low EMI
- Full duplex link
- Accepts wide spread spectrum pixel clock
- Configurable video interface
- Parallel RGB up to 24 bit
- Single/Dual Channel LVDS 18 or 24 bit
- Video resolutions up to 1280x720x24bit (720p)
- 2 x 1280x720x18bit
- 1600x600x24bit@60 Hz
- AShell protected full duplex communication channel
- Flexible data interface
- SPI Master/slave
- High speed data bulk mode
- 100 MBit/s Ethernet
- I²C Master
- Low latency GPIOs
- I²S Audio interface up to 8 channels, up to 192KHz frames
- Daisy Chaining support
- +12 m Distance with low profile STP cables
- Extended Temp. Range: -40 to +105°C
- AEC-Q100

Part Numbers:

INAP375T LQFP100
INAP375R LQFP100

Inova Semiconductors GmbH

Grafinger Str. 26
D-81671 München / Germany
Tel. +49 / 89 / 45 74 75 – 60

www.inova-semiconductors.de
info@inova-semiconductors.de