

# APIX<sup>®</sup> 2

# APIX<sup>®</sup> Automotive PIXel Link

## Video, Audio, Data, Ethernet over one cable



3 GBit/s  
Video →  
Audio →  
Full Duplex Data ↔  
Ethernet ↔  
GPIO ↔  
Power →



# APIX<sup>®</sup> 2

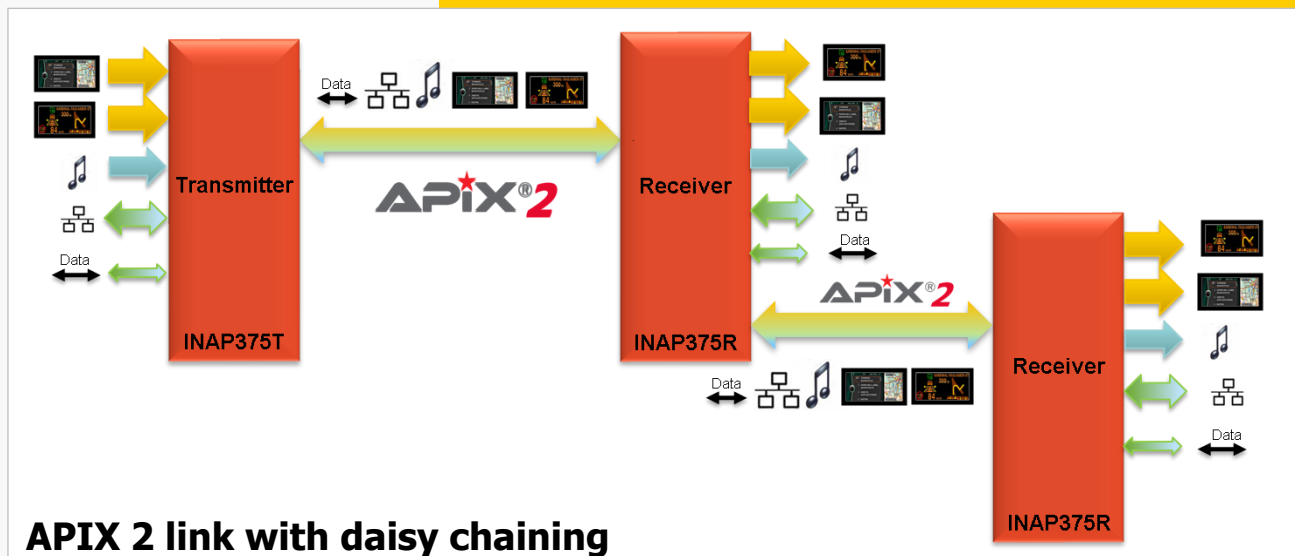
### Applications

- Central Information Displays
- Automotive Dashboards
- Rear-Seat Infotainment Systems
- Head-Up Displays
- Lane Departure Warning
- Occupancy Detection
- Sign Recognition Camera
- Blind Spot Detection
- Round view systems
- Rear View Camera

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# 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, Four-Wire Full Duplex Link
- Accepts wide spread spectrum pixel clock
- +12 m Distance with low profile STP cables
- 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
- 1920x1080x24bit (1080i)
- 1600x600x24bit@60 Hz
- AShell protected Full Duplex Communication Channel
- Flexible data interface
- SPI Master/slave
- 100 Mbit/s Ethernet
- I<sup>2</sup>C Master
- Low latency GPIOs
- I<sup>2</sup>S Audio Interface with 8 channels, 32 bit, 192KHz frame format,
- Daisy Chaining support
- Up to 12m distance
- Extended Temp. Range: -40 to +105°C
- AEC-Q100

## Part Numbers:

INAP375T LQFP100  
INAP375T LQFP100

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