



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

## Replacing 3 cables by 1



Video  
Control  
Power



LVDS

CAN

Power



Video  
Control  
Power



Video and Independent Full Duplex  
Communication Channel over the same link



## APIX Features:

- Up to 1 GBit/s Downstream Link
- Up to 62.5 MBit/s max Upstream Link
- Low EMI, Two- or Four-Wire Full Duplex Link
- Accepts wide spread spectrum pixel clock
- +15 m Distance with low profile STP cables
- 10/12/18/24 bit pixel Interface
- Configurable sampling edge for pixel data
- DC-balanced line coding to support AC coupling
- Line Driver Current and Pre-Emphasis adjustable
- Hot plug capability
- Extended Temp. Range: -40 to +105 C
- AEC-Q100

## Part Numbers:

INAP125T24 QFN 64  
 INAP125R24 QFN 64  
 INAP125T12 QFN 48  
 INAP125R12 QFN 52

Name	Resolution	Color depth (Bit)	PX_CTRL transmission
QVGA	320x240	24	Each pixel
VGA	640x480	24	Each pixel
WVGA	854x480	24	Even pixels only
WVGA	854x480	18	Each pixel
SVGA	800x600	18	Each pixel
XGA	1024x768	12	Never
XGA	1024x768	10	Each pixel
Dashboard	1280x480	18	Each pixel

## APIX Applications

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

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