



APIX Display Link Demo Set



Inova Semiconductors' APIX Display Link Demo Set demonstrates long-distance extension of digital video and HMI functionality through 4 wires only!

The world's first integrated board solution offers uncompressed long-distance transmission of

- Digital Video up to SVGA resolution
- RS232

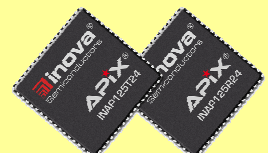
over conventional CAT5e-cables up to 25 meters.

The set of boards (Tx/Rx) is prepared for the adaptation to all displays, PCs or DVD players with DVI-D interface. For industrial applications the 18 bit TTL RGB interfaces on both ends allow to directly connect small-scale TFT-LC-displays and IPCs. Mixed interfacing, e.g. DVI-D at Tx side and TTL RGB at Rx side, is possible. Operation of the boards does not require any software drivers (DDC function supported).

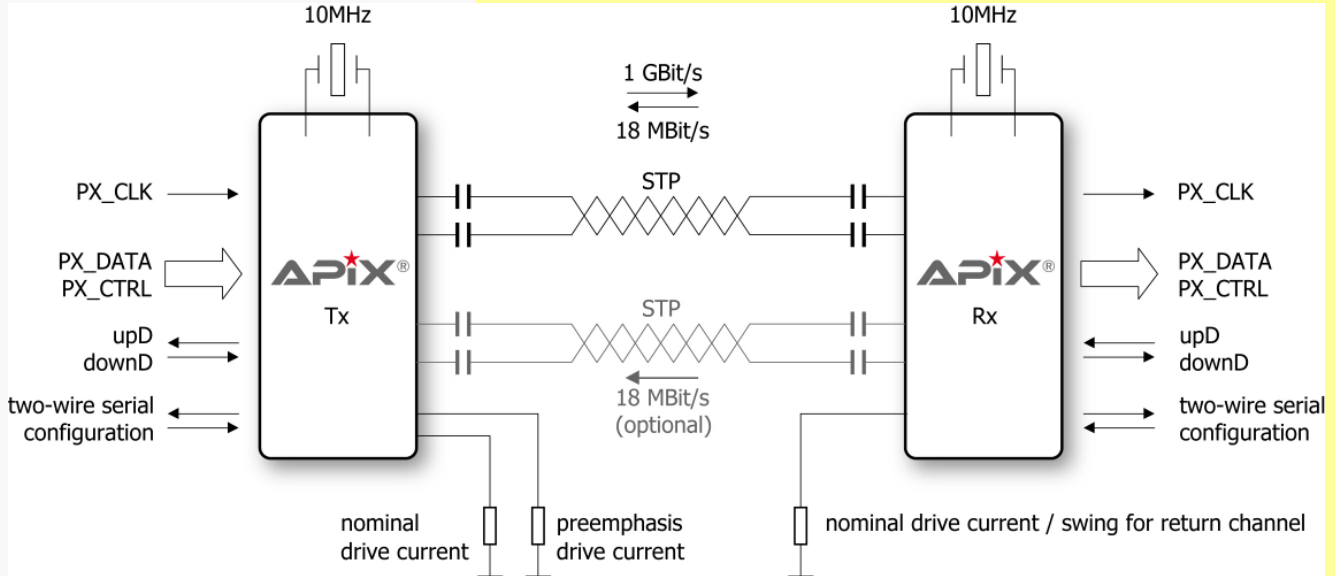
The demo set consists of two credit-card sized boards (Tx, Rx), one 10 meters CAT5e link cable, one wall power supply, and the user manual. Schematics and Gerbers are provided upon request.



Ordering Code: **APIX_ADLS**



APIX Technical Details



Link Bandwidth Capabilities

Downstream		
Operation Mode	@ 1000 Mbit/s	@ 500 Mbit/s
10 bit	max. 62,5 MHz PxClk	max. 31.25 MHz PxClk
12 bit	max. 61.0 MHz PxClk	max. 30.5 MHz PxClk
18 bit	max. 42 MHz PxClk	max. 21 MHz PxClk
24 bit	max. 32 MHz PxClk	max. 16 MHz PxClk
Sideband Channel	2 x 1 bit at 12 Mbit/s max.	2 x 1 bit at 6 Mbit/s max.
Upstream		
Sideband Channel	2 x 1 bit at 9 Mbit/s max.	

Package Options

To reduce pin count and saving board space at dedicated applications, the APIX chips are available in packages with different pin counts.

Device	Description	Package
Transmitter		
INAP125T12	Tx with 10...12 bits Interface + 1 bit Sideband	QFN48
INAP125T24	Tx with 10...24 bits Interface + 2 bits Sideband	QFN64
Receiver		
INAP125R12	Rx with 10...12 bits Interface + 1bit Sideband	QFN52
INAP125R24	Rx with 18...24 bits Interface + 2bits Sideband	QFN64

APIX Applications:

- Remote Terminals
- P.O.S. / P.O.I.
- Digital Signage
- Rear-Seat Infotainment Systems
- Home Appliances
- Consumer Products
- Home Automation Terminals
- Security and Surveillance Systems
- Passenger Infotainment Systems
- Machine Vision
- In-Car Information Displays
- Automotive Dashboard Displays
- Car Head-Up Displays
- Automotive Vision Systems
 - Adaptive Cruise Control
 - Lane Departure Warning
 - Lane Change Assistant
 - Obstacle Detection
 - Sign Recognition
 - Rear & Side Mirror Replacement
 - Blind Spot Detection
- Military Head-Up and Helmet Displays

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