

News Release

Xylon presents APIX[™] based RSE demonstrator

Rear Seat Entertainment based on APIX[™] and Xylons logicBRICKS[™] FPGA Solution to minimize cabling and offer high system scalability.

February 26, 2008 - Embedded World in Nürnberg, Germany. Xylon and INOVA Semiconductors show an Automotive RSE (Rear Seat Entertainment) demonstrator developed by Xylon. It uses the INOVA INAP125T24 and INAP125R24 APIX Pixel Link chipset for a remote display application in combination with Xylons logicBRICKS[™] Graphic Controller IP-Cores in a low cost Xilinx Spartan3/3E Automotive series FPGA.

The central RSE unit is based on Xylon logiCRAFT2 Development Platform and the Display units are based on the logiCRAFT3 Development Platform. Signal processing is executed by Xilinx FPGA chips implementing logicBRICKS[™] IP cores, and serialized signals are sent to the remote display units by the APIX Pixel Link driving only 4 wires (2 twisted pairs). Thereby the APIX Gigabit Link

handles Stereo Audio Channels (48kHz) and Video (800x480, 18/24bit), whereas the bi-directional Sideband channels are being used for handling all the control signalling such as Buttons, Jog dials, Dimming, Remote Control (crude IR receiver signals). The twisted pair handling one backchannel is also being used for the Power Supply of 12VDC/900mA. The APIX link is optimized to establish a robust, EMI proof link up to 15m over copper wires – an essential feature in harsh Automotive Environments.

The remote display units receive multiplexed video/audio/control signals by the APIX Pixel Link device and de-multiplex them by a simple Xylon FPGA design implemented in a low-cost Xilinx FPGA device driving LCD display and audio devices including IR headphones. Remote display unit can be controlled by an IR Remote Controller

About INOVA Semiconductors

INOVA Semiconductors, an ISO9001 certified company, is a fab-less semiconductor manufacturer. The headquarters of the company is located in Munich, Germany. It is designing, marketing and selling its products and licensing its technologies, directly and through a global network of distributors.

INOVA Semiconductors specializes in reliable high speed serial data communication products for Gigabit/s data transfers through standard STP copper cables up to 50 m, or through fibre optic cables up to 500 m and more. GigaSTaR™, GigaSTaR DDL™ and APIX™ product lines have achieved major advancements in digital multimedia transmission particularly in the Automotive, Industrial and Transportation markets.

www.inova-semiconductors.de

About Xylon:

Xylon is an independent design house focused on FPGA design developments to produce optimized IP cores, named logicBRICKS™, interfaces and service that improve designer's effectiveness and lower overall production costs. Xylon is an ISO9001 certified company. Xylon's core products are Graphic Display Control related IPs available within the logicBRICKS™ IP library.

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