

## **MorethanIP Releases the Industry First Complete SPAUI and RXAUI Solution for FPGA and ASIC**

**Munich, Germany – Sep, 29th, 2008** – Dune Networks, a leading provider of networking devices for Metro Ethernet, Enterprise and Data Center platforms and MorethanIP today announced the immediate availability of the industry's first SPAUI and RXAUI intellectual property (IP) cores for FPGAs and ASICs. MorethanIP's SPAUI and RXAUI are optimized for Altera's Stratix II GX, Stratix IV, and Xilinx Virtex 5 LXT / FXT devices to provide a compelling solution for storage, telecommunications, and data center applications. The identical cores can also be targeted seamlessly to ASIC and Structured ASIC, providing a low-risk path to cheaper devices.

MorethanIP's offering of SPAUI and RXAUI IP cores include a configurable SPAUI MAC, a programmable four-Lane PCS (Physical Coding Sub-layer) and a programmable two-Lane XAUI PCS (also known as RXAUI). The configurable MAC core implements the SPAUI functions, such as CRC check and calculation, BCT (Burst Control Tag) to support channelization and burst interleaving traffic, Preamble and IPG (Inter-Packet Gap) compression with out-of-band, in-band with the LLFC (Link-Level Flow Control) bit, packet agnostic and standard IEEE flow-control schemes. The SPAUI MAC core also includes a FIFO interface to simplify system design and integration of third-party cores and customer applications.

The PCS core's interface embedded SERDES operates at rates of up to 6.5Gbps per lane in existing FPGA devices or ASIC technologies. The PCS cores implement the line coding, channel bonding functions.

MorethanIP's offering of SPAUI and RXAUI IP cores was tested and validated with Dune's new generation of FAP devices, called the PETRA family, which includes the P220, P230, and P130 devices. The PETRA device family offers highly integrated 40G and 80G Traffic Manager and Fabric devices, integrating up to eight SPAUI and RXAUI interfaces, as well as standard XAUI and SGMII interfaces.

Francois Balay, CEO of MorethanIP, stated, "Supporting the Dune SPAUI and RXAUI interfaces is strategic to MorethanIP, as it extends our leadership in high-speed Networking core solutions to meet our customer demand. Dune is leading the market efforts in defining 10GE interfaces that enable dense 10GE solutions."

"Collaborating with MorethanIP to develop SPAUI and RXAUI solutions was an obvious choice", adds Ori Aruj, Vice President of Marketing at Dune Networks. "Our successful experience in collaborating with MorethanIP over the years as both partners and customers of their 10 Gigabit Ethernet Core products has proven to be invaluable in assisting our customers' design."

### **Pricing and Availability**

The new cores are available now from MorethanIP. Pricing for the SPAUI MAC core starts at US \$25,000 for an FPGA encrypted, configurable-code version.

### **About MorethanIP SPAUI IP Cores**

The new IP cores are delivered with the MorethanIP user-friendly configuration graphical user interface, through which designers can easily eliminate features that are not required, reducing unit costs and simplifying software integration. MorethanIP supplies the SPAUI cores with the ability to do functional simulation using an industry standard VHDL or Verilog simulator or synthesis tool, as well as place-and-route and static timing analysis using FPGA and ASIC design tools.

### **About MorethanIP**

MorethanIP ([www.morethanip.com](http://www.morethanip.com)) was founded in 2000 as a GmbH (Ltd.) in Munich Germany by three senior Telecommunication Engineers. MorethanIP is a privately owned and profitable design and IP (Intellectual Property) house concentrating on high-speed communications, serial backplane, and embedded system technologies. This includes design, specification, and implementation of standard products, system architectures, and customer-specific solutions. Combining its methodology with proven technical expertise from more than ten years of hardware and software design experience in industry, MorethanIP generates rapid design cycles to meet time-to-market, functional, and budgetary objectives.

### **About SPAUI**

SPAUI is an interface based on the XAUI industry standard. It incorporates several extensions focused on providing 10Gbps applications with speedup (for packet headers, full rate 12GE), channelization, packet interleaving, and refined flow control. SPAUI is implementation-friendly, backward compatible to the standard XAUI, and ideal for dense 10GE and higher-speed Ethernet solutions. The SPAUI memorandum is available upon demand from Dune Networks at no cost.

### **About Dune Networks**

Dune Networks ([www.dunenetworks.com](http://www.dunenetworks.com)) is a semiconductor supplier of networking devices, facilitating the build of Data Center, Enterprise and Carrier Ethernet Solutions. Dune provides a switching solution that truly scales in capacity, port rate, and service scheme. This extends the life cycle of packet platforms from the legacy 3 years up to 10 years or more, revolutionizing the economics of packet networks. Founded in the year 2000, Dune offices are located in Sunnyvale, California and in Yakum, Israel.

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