



One-Stop-Solution for Ethernet AVB Endpoint Designs

Powerful Command and Control Middleware Solution Speeds XMOS processor-based AVB Products to Market

Düsseldorf/Bristol, March 2011 Software think tank UMAN has developed an advanced Ethernet AVB compliant endpoint solution that contains a feature-rich software command and control environment and compact hardware drivers running on top of low-cost XMOS event-driven microcontroller based AVB hardware designs. The UMAN software solution is designed to make it simple for product development teams to quickly develop complex, multi-channel networked media products based on the AVB standard interface.

The combination of the XMOS microcontroller based AVB endpoint hardware and the netOS UNOS delivers outstanding system features in a very cost effective design. Basic features of the UMAN design targeted at XMOS based solutions are the support of IEEE 1588 and IEEE 1722 standards and streaming capability of up to 120 channels of audio per device with sub-sample accurate network-wide coherency.

UNOS expands the AVB system capabilities with a powerful and feature rich command & control solution for audio, video and lighting equipment. System developers make their AVB solutions a "one stop solution" by rapidly integrating the preconfigured UMAN software solution on top of the XMOS based reference design. The UNOS core middleware and hardware drivers enable even small R&D teams to quickly develop powerful network products without having to deal with low-level driver and control problems. UNOS vision and creator software provides a state-of-the-art graphical user interfaces so that solutions can be built without the need of time consuming programming.

XMOS has developed the industry's lowest cost AVB reference endpoint design utilizing the industry's first 32-bit event-driven microcontroller, a new architecture that transforms the way in which embedded computing products are designed. The company's event-driven microcontrollers combine the code efficiency of a RISC

processor, the computational performance of a DSP and the unique flexibility of implementing all peripherals through user-defined “C” software, not as silicon gates. “The combination of low-cost XMOS-based hardware designs and the UMAN middleware solution will drive the rapid adoption of AVB as the standard interface for a wide-range of powerful networked audio-visual products, said Terry Leeder, President and CEO at XMOS.

“The combination of XMOS technology and the netOS UNOS is ideal”, says UMAN CEO Jürgen Scheuring “The XMOS processors provide an extremely cost effective and scalable way to built AVB interfaces. Their software defined structure is extremely flexible and allows adaptation to future standards. The combination of both technologies helps manufacturers to achieve more attractive devices with new market opportunities.”

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The UMAN Universal Media Access Networks GmbH is a software think tank responsible for the development of UNOS (Universal Network Operating System). UMAN sees its role as that of a strategic partner for innovative technological enterprises. With its UNOS products and through the provision of development services, UMAN offers its clients solutions for the simple and risk-free implementation of network technologies. UMAN GmbH was founded in 2007 and is based in Düsseldorf, Germany. The development team comprises engineers and scientists based in Cape Town, South Africa.

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