Customer case study

KISSBOX PORTS TO xCORE IN JUST THREE WEEKS

The Kiss-Box is a family of network controlled devices specifically designed for show-control and audio related applications. One of the biggest challenges in creating the product was supporting many different peripherals (including DMX, MIDI, analog and digital I/O and LTC) from the same CPU board.

KissBox chose to base a new generation of its products on an xCORE XS1-L16 multicore microcontroller from XMOS, in the process simplifying the design and eliminating "glue" electronics and peripheral processors.

According to KissBox's Benoit Bouchez: "The programmability of the xCORE ports allowed us to greatly simplify the electronic design, since most of the processing is now done directly by the (xCORE) processor. The quality of the development tools permitted us to port our existing C code into the XS1 device in less than three weeks."

The Kiss-Box uses the ability of xCORE multicore microcontrollers to implement multiple communications interfaces in software, allowing many different types of appliance to be interconnected via a single Ethernet network. In the process, the xCORE multicore microcontroller replaces the controller processor, multiple peripheral processors and glue logic within the design.

Kiss-Box can deal with traffic based on TCP/IP, UDP and RTP protocols. It further simplifies data network design and installation by using Power over Ethernet (PoE) – allowing unique flexibility in Ethernet systems. A typical system consists of one or more Kiss-Boxes, a network and a computer running control software. However, most units can also be used peer-to-peer, to pipeline data across a network.

To learn more visit: http://www.kissbox.com/