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CMX SUPPORTS THE INFINEON XMC4500 SERIES

RTOS, TCP/IP and Flash File Systems now available

Jacksonville, FL - CMX Systems, well-known designer of real-time operating systems, TCP/IP, Flash File Systems and USB software, now offers its widely deployed CMX-RTX RTOS, two TCP/IP stacks and five Flash File Systems for the XMC4500 series microcontrollers of Infineon Technologies which are based on the ARM® CortexTM-M4 processor. Support is provided for compiler tool chains including IAR and Keil. CMX also plans to announce USB support in the near future.

"CMX Systems is a well-recognized provider of RTOSes, TCP/IP, USB and File system software for embedded microcontrollers," said Dr. Stephan Zizala, Senior Director, Industrial and Multimarket Microcontrollers at Infineon Technologies AG. "The availability of CMX software for the XMC4000 family using CortexTM-M4 provides designers with expanded capability and flexibility for augmenting designs based on the XMC4000 microcontroller family."

"We are pleased to support Infineon Technologies and its customers by offering our widely deployed, embedded software products including real time operating systems (RTOS), USB, TCP/IP connectivity and Flash File Systems backed by our extensive experience in the embedded software industry" stated Chuck Behrmann, CEO and President at CMX Systems.

CMX-RTX is a truly preemptive, multi-tasking RTOS offering one of the smallest footprints, fastest context switching and lowest interrupt latency times available on the market today. RTOS functionality provided in CMX-RTX includes: task, message, queue, system, event, memory, resource, semaphore and timer management. CMX-RTX includes an intuitive Windows GUI that simplifies RTOS configuration.

CMX-MicroNet is a TCP/IP stack specially crafted to work with virtually all processors and features an extremely small Flash requirement and minimal RAM requirements of about 500 bytes plus buffers for packets. The base CMX-MicroNet software package includes UDP, TCP, IP, Modem, SLIP, ICMP Echo, IGMP, and Virtual File system. Add-On Options available are: SSL/TLS, HTTP Web Server, DNS Client, FTP, SMTP, SNMP, DHCP Client, TFTP Client, SNTP, Fragmentation, POP3, PPP, CHAP, Telnet, Ethernet (ARP, BOOTP) and Wireless.



CMX TCP/IP is a full-featured, 100% RFC compliant, TCP/IP stack targeted at 16- and 32-bit processors and provides virtually all of the protocols, link layers, interfaces, and device drivers required for most networking applications. The basic CMX TCP/IP stack provides: UDP, TCP, IP, ICMP, IGMP, DNS, ARP, SLIP, Ethernet, an RTOS porting layer, a Standard BSD socket interface and a High Performance Socket Interface. Add on options include: DHCP, IMAP4, FTP, NAT, POP3, PPP, PPPoE, SMTP, SNMP, Telnet Server, TFTP/BOOTP, Web Server, SSL/TLS and Wireless.

The CMX-USB device stack offers a wide selection of Add-On options including an HID class implementation supporting Human Interface Devices such as a keyboard, mouse or joystick, a full USB Mass Storage Class with optimized drivers for accessing MMC/SD cards or other media, CDC class supporting standard communications ports, Media Transfer (MTP) Class for portable media devices, Pictbridge Extension for MTP Class, RNDIS for Remote Networking, ECM for Ethernet Networking Control, Audio, MIDI, Printer, Personal Healthcare Class and a Bootloader.

CMX-USB Host stacks (OHCI, EHCI and Proprietary) are designed for processors with both integrated USB host controllers and external USB host controllers. The CMX-USB Host package offers a FAT compatible Mass Storage Class driver which allows attachment to media including pen drives, SD/SDHC cards, NOR, NAND Flash and more. Additional USB Class options include CDC, HID, Audio, MIDI, FTDI, Hub, OBEX, ECM, EEM, RNDIS, MTP, Printer and a Bootloader.

The CMX-USB suite also offers an optional OTG (On-The-Go) Module for applications which require dynamic switching between USB host and device functionality.

CMX offers a variety of Flash File Systems including; CMX-FFS-FAT, a FAT 12/16/32 compatible file system supporting standard media; CMX-FFS-SAFE-FAT, a FAT compatible file system with protection against unexpected resets; CMX-FFS-THIN, a scalable, reduced footprint FAT file system designed for processors with limited resources; CMX-FFS, a 100% Failsafe flash file system and CMX-FFS-TINY, a limited resource failsafe file system for Serial Flash, DataFlash and Small Sector Byte Writeable flash.

CMX TCP/IP stacks, USB stacks and file systems can operate with or without an RTOS. All CMX products feature full source code, no royalties, free technical support and updates with every purchase.

About CMX Systems

Since its inception in 1990, CMX Systems has focused on providing its customers with all of the tools needed to program their embedded applications. The company's core business is to develop and support real-time, multitasking operating systems (RTOS), TCP/IP stacks, Flash File Systems, USB stacks and the CANopen stack for a wide variety of 8-bit, 16-bit, and 32-bit microcomputers, microprocessors, and digital signal processors. The company's RTOSes support more than 50 processor families and over 30 C-compiler vendors. CMX also offers the tiny CMX-MicroNet, which is a unique TCP/IP stack that is targeted for 8-, 16-, 32-bit and DSP processors with limited ROM and/or RAM, CMX TCP/IP, a full-featured TCP/IP stack designed for 16-, 32-bit and DSP processors and CMX-INet-Plus for IPv4/IPV6 networking applications. CMX additionally offers five different Flash File Systems to best meet the memory management needs of embedded developers. CMX-USB is offered for designers wishing to add USB connectivity to their products. For more information, please visit CMX Systems' website at http://www.cmx.com.