

**Contact:** Kevin L. Finnan, CSE-Semaphore, 860-618-0293 or kevinf@cse-semaphore.com;  
John Nero, Tiziani Whitmyre, 781-793-9380 or jnero@tizinc.com

## **32-bit SCADA System CPU Delivers up to 100-fold Performance Boost for Semaphore IP Telemetry-Based RTU Product Line**

NASHUA, NEW HAMPSHIRE – February 14, 2008 – Semaphore, a CSE Global company, has added a 32-bit CPU [SCADA software](#) module to [T-BOX](#) line of RTU [SCADA system](#) products. The new MS-CPU32 is compatible with the [T-BOX MS Modular System](#) and offers up to 100 times the performance of current T-BOX processors.

Based on a 505 MIPS PowerPC processor, the MS-CPU32 uses a Linux core, includes two Ethernet ports and supports up to 16 serial ports in a T-BOX MS installation. The MS-CPU32 additionally supports processor redundancy. Two MS-CPU32 CPU modules can be installed in a T-BOX MS rack and operate in a Primary/Backup configuration. T-BOX MS also allows redundancy in power supplies and communications ports.

The significantly higher performance of the MS-CPU32 brings advantages to a broad range of automation applications. In a test run by a U.S.-based systems integrator, the MS-CPU32 executed a filter backwash application program on a loop time of 8 milliseconds vs. a one-second loop time using the 16-bit CPU, representing an improvement of more than 100 times.

The MS-CPU32 also supports sequence-of-events (SOE) recording with a resolution of one millisecond. Information stored with millisecond resolution can be displayed in tabular and trend chart reports as well as in [SCADA screens](#) generated by Semaphore WebForms software. Millisecond resolution is also supported in alarm reports, which a T-BOX MS can send to multiple recipients via e-mail.

Applications programs, which were developed for use with the T-BOX 16-bit processor, can be converted for use with the MS-CPU32 by simply clicking on a “Tools – Conversion” dialog box in Semaphore’s TWinSoft [SCADA software programming](#) environment. The MS-CPU32 is compatible with TWinSoft version 10.00 or higher.

The robust packaging for this module is designed for industrial applications in harsh environments. The MS-CPU32 operates over a wide temperature range as well as in areas, which experience high vibration and radio frequency interference.

Semaphore’s T-BOX RTU products are ideal for a broad range of monitoring and control applications in the broadcast, infrastructure management, oil & gas, power, transportation and water treatment and distribution industries.

For more information about Semaphore SCADA solutions, visit [www.cse- semaphore.com](http://www.cse- semaphore.com), or contact Semaphore at 15B Charron Avenue, Nashua, NH 03063, 603-577-3803.

### **About Semaphore**

Established in 2006, Semaphore was the result of a merger of two CSE Global companies, RTUnet, of Australia, and TechnoTrade SA, of Belgium. For more than 20 years, these companies have provided leading solutions for telemetry, automation, and remote monitoring and have an installed base of more than 70,000 devices. For more information, visit [www.cse- semaphore.com](http://www.cse- semaphore.com).

Semaphore is a wholly owned subsidiary of CSE-Global Limited (CSE), a Singapore-based, industrial integration, manufacturing and distribution group with locations in 20 countries. CSE employs more than 1,000 people worldwide, with over 85% representing its design, engineering, and project management capability and experience. For more information, visit [www.cse- global.com](http://www.cse- global.com).