The DSTni-EX Development Kit provides an ideal, low profile means of embedding network technology into devices and systems

The DSTni-EX Development Kit contains all the hardware components, operating software and software programming tools you need to successfully develop robust embedded networking applications using the Lantronix DSTni-EX single chip networking solution.

**A Complete Development Platform**
The kit provides a complete development platform, including a development board with the DSTni-EX networking chip pre-installed, real time operating system (RTOS) software, a TCP/IP protocol stack, an advanced C-language development system, and an integrated in-circuit debugger.

**The DSTni OS Suite – Seamless Integration**
The DSTni OS Suite is a pre-integrated set of embedded software components that includes binary versions of a real time operating system (RTOS), a TCP/IP communication protocol stack, and additional tools and utilities.

**Application Development Made Simple**
The DSTni-EX Development Kit includes Paradigm C++ from Paradigm Systems. This powerful application development tool kit provides a robust, tightly integrated x86 development environment.

Compilers, assembler, linker, locate utility and debugger are fully integrated into Paradigm C++, along with other tools and utilities to assist with project management and third party tool integration.

Also included is the FS2 In-Circuit Emulator from First Silicon Solutions to foster an effective and efficient means of application testing and debugging. Utilizing their on-chip instrumentation technology, the In-Target System Analyzer with JTAG cable and test board provides run control, memory and register visibility, software and hardware breakpoints, and a trace history feature. It can easily be configured to provide network protocol analysis on the DSTni-EX chip.
Features

DSTni-EX Evaluation Board:
- DSTni-EX chip
- 1 Mbyte on-board SRAM
- 2 Mbytes on-board parallel flash
- JTAG interface in-circuit emulator support
- Watchdog interface
- Two DB9 connectors for RS-232 serial interface
- 10/100Base-T RJ45 Ethernet connector
- +5 VDC input connector
- Diagnostic and status LEDs

DSTni-EX Development Kit Contents:
Hardware
- DSTni-EX evaluation board
- Power supplies
- 7-foot twisted pair straight-through Ethernet cable
- 7-foot twisted pair crossover Ethernet cable
- 6-foot modem serial cable, DB9 female to DB9 male
- Complete set of hardware manuals

Software
- Real time operating system (RTOS): A binary version of DSTni OS, a mature embedded ANSI-C kernel providing applications with the ability to perform multiple application tasks simultaneously through the use of over 70 systems calls
- Embedded TCP/IP protocol suite: An embedded compact TCP/IP stack with a small footprint providing real time embedded applications. It is ROMable and reentrant to ensure optimal performance with its companion real time operating system
- Complete set of software manuals

Development Tools
- FS2 In-Circuit Emulator with IEEE 1149.1 (JTAG) interface
- Power supply for the FS2 debugger hardware
- A CD containing the FS2 software
- IEEE 1284 parallel port
- A CD containing Paradigm interface to PC integrated development environment for creating x86 real and protected mode embedded system applications
- Complete set of documentation

Ordering Information

DSTni-EX Development Kit
Part Number: GC-DK-EX
The DSTni-EX Development Kit includes:
- Hardware
  - DSTni-EX Evaluation Board
- Software
  - Real Time Operating System (RTOS) and TCP/IP Protocol Suite (binaries)
- Development Tools
  - Evaluation Copy of Paradigm C++ Serial Debugger

For More Information
Master Distributor
Grid Connect, Inc.
1841 Centre Pt. Circle, #143
Naperville, IL 60563
630.245.1445
630.245.1717
sales@gridconnect.com
www.gridconnect.com