

DSTni™ - EX Development Kit

- ▶ Includes a development board, real time operating system (RTOS) software, TCP/IP protocol stack, advanced C-language development system, and integrated in-circuit debugger
- ▶ Includes Paradigm C++ from Paradigm Systems
- ▶ Also includes the FS2 In-Circuit Emulator from First Silicon Solutions

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

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