

## DSTni EX & LX Development Kits

The DSTni EX & LX Development Kits are a complete set of software and hardware tools including DSTni OS operating system and example programs, data sheets and schematics. The same base board is used for all plug-in DIMM modules.

Providing quality  
Network products  
and the best service  
to our customers.

- Chips
- Modules
- Software
- Products

The DSTni EX/LX development environment allows the user to develop their application using all the best hardware and software tools. The DSTni development board brings out all the peripheral interfaces to external connectors and/or a header row of pins. The interfaces include 2x 10/100 Ethernet MACs and PHYs, 2 CAN channels, 2x serial ports (RS232 and RS232/422), USB (Host and Slave), SPI, I2C, and Profibus (LX only). The DSTni development board uses DIMM technology to add either the EX DIMM or LX DIMM processor module. The DIMM processor module is included and has the EX or LX microprocessor, flash memory,

SRAM memory, SPI memory, watchdog and crystal/oscillator circuitry.

The DSTni Kits include the world class Paradigm C/Tools and DSTni OS operating system. Optionally the user can purchase the FS2 JTAG in-circuit emulator.

Grid Connect (formerly Lantronix) and Lantronix provide the DSTni EX & LX chips and development kits along with complete technical support and the DSTni OS royalty free operating system.

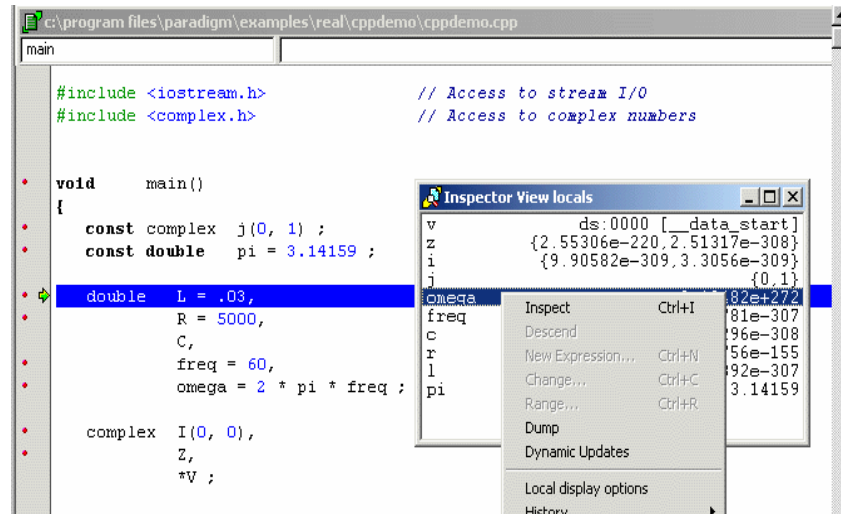
## DSTni EX & LX Kits

### Complete Development Systems

#### Features

- Development board with all interfaces brought out to connectors or pins
- EX or LX DIMM module provided depending on kits ordered
- 2x Ethernet 10/100 interfaces (EX has 2x, LX has 1x)
- 2x CAN interfaces, one DB9, one terminal block
- 1M byte SRAM
- 2M bytes Parallel Flash
- 4M bits Serial Flash (SPI)
- 2K bytes of EEPROM
- 2x UARTs RS-232 DB9
- 1x UART RS-422/485 Terminal block
- 1x USB controller, 1 host connector, 1 slave connector
- 1x Profibus Interface (LX only)
- Pin header with DIMM socket signals for debugging
- Paradigm C/Tools Integrated Development Environment (IDE)
- Paradigm serial RS232 debugger
- JTAG In-Circuit Emulator (option) integrated with Paradigm IDE
- Includes DSTni OS royalty free operating system
- CD with complete documentation including data book, example programs and schematics
- Power supply and cables
- Aluminum carrying case

#### Paradigm C/Tools



```

c:\program files\paradigm\examples\real\cppdemo\cppdemo.cpp
main
#include <iostream.h>           // Access to stream I/O
#include <complex.h>           // Access to complex numbers

void main()
{
    const complex j(0, 1);
    const double pi = 3.14159;

    double L = .03,
           R = 5000,
           C,
           freq = 60,
           omega = 2 * pi * freq;

    complex I(0, 0),
           Z,
           *V;
    
```

Inspector View locals

v	ds:0000 [__data_start]	
z	{2.55306e-220, 2.51317e-308}	
i	{9.90582e-309, 3.3056e-309}	
j	{0, 1}	
omega	82e+272	
freq	81e-307	
c	96e-308	
r	56e-155	
l	92e-307	
pi	3.14159	

#### USB JTAG In-Circuit Emulator (Optional included with EX4 & LX4 kits)



Order On-Line at [www.gridconnect.com](http://www.gridconnect.com)

#### Part Numbers:

- |           |                                       |
|-----------|---------------------------------------|
| GC-DK-EX3 | EX Development Kit w/o JTAG Emulator  |
| GC-DK-EX4 | EX Development Kit with JTAG Emulator |
| GC-DK-LX3 | LX Development Kit w/o JTAG Emulator  |
| GC-DK-LX4 | LX Development Kit with JTAG Emulator |