

# MiiNePort E2-SDK

## MiiNePort E2 software development kit



- > Eclipse-based integrated software development tool
- > Source level debugger
- > Various serial-to-Ethernet sample codes
- > Mass production tool for easy firmware upload
- > Support RealCOM mode operation functions



### Overview

MiiNePort E2-SDK is a powerful and versatile software suite for proprietary firmware development on the MiiNePort E2. To expedite time-to-market, the MiiNePort E2-SDK provides comprehensive tools for development, testing, and mass-production. The software development kit includes:

**MiiNePort-IDE** - integrated platform for development of serial-to-Ethernet firmware.

**PComm Lite** - software application for testing serial and TCP/IP communication/transmission.

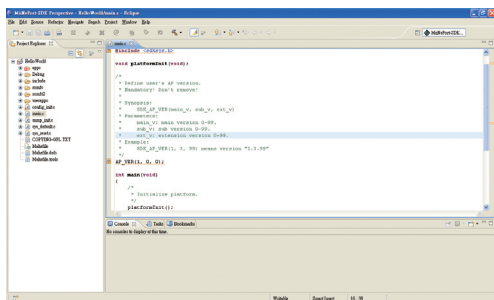
**Search Utility** - search-and-update firmware utility for mass-production of modules and serial devices through simultaneous multiple-unit configurations.

### MiiNePort-IDE (Eclipse-based Software Development Tool)

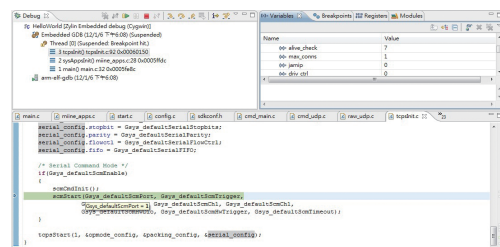
The MiiNePort-IDE is an Eclipse-based platform which includes a powerful source code editor, C/C++ compiler, and source level debugger tool. The MiiNePort-IDE also offers wizard assistance for step-by-step development of SNMP, Telnet, configuration, and

application functions. In addition, serial-to-Ethernet sample codes are provided for reference to assist in firmware development. For complex operating modes, such as RealCOM and Ethernet modem, MiiNePort-IDE offers ready-to-run firmware with minimal configuration required.

### Friendly Interface



### Source Level Debug



## Specifications

### Supported Hardware

MiiNePort E2  
 MiiNePort E2-H  
 MiiNePort E2-T  
 MiiNePort E2-H-T

### Software

OS: eCos

Software Development Tool: MiiNePort-IDE

Windows Real COM Drivers: Windows 98/ME/NT/2000, Windows XP/2003/Vista/2008/7 x86/x64, Embedded CE 5.0/6.0, XP Embedded  
 Fixed TTY Drivers: SCO Unix, SCO OpenServer, UnixWare 7, SVR 4.2, QNX 4.25, QNX 6, Solaris 10, FreeBSD, AIX 5.x

Linux Real TTY Drivers: Linux kernel 2.4.x, 2.6.x, 3.0.x

Operation Modes: Real COM, Ethernet Modem

Wizard: Project/SNMP/CLI(Telnet)/SCM/User Configuration

Serial/Ethernet Test Tool: PComm Lite (Serial/TCP Server/TCP Client)

Search/Upload Firmware Utility: NPort Search Utility

### Serial to Ethernet Sample Source Code

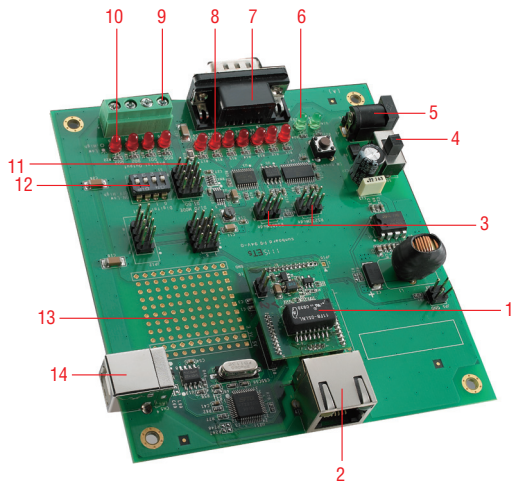
(Integrated in MiiNePort-IDE):

1. TCP Server Echo
2. TCP Server to Serial (Single connection)
3. TCP Server to Serial (Multi-connection)
4. TCP Client Echo
5. TCP Client to Serial (Startup)
6. TCP Client to Serial (Any character)
7. TCP Client to Serial (Designed destination TCP/IP port from serial)
8. UDP echo
9. UDP to serial

### Documents

API Function Helper, User's Manual, Getting Started, Schematic Design Guide, Quick Installation Guide

## Hardware Evaluation Board



Number	Description
1	MiiNePort E2-SDK Module, 2 MB Flash and 4 MB RAM built in
2	10/100M Ethernet RJ45 Connector
3	Serial Interface Jumper
4	Power Switch
5	Power Jack, 12 to 48 VDC
6	Power & Ready LED
7	RS-232 DB9 Male Connector
8	Serial Port Status LED
9	Digital IO Terminal Block
10	Digital Output LED
11	Digital Input/Output Mode
12	Digital Input Switch
13	Circuit Pad
14	USB Type B Connector (Debug)

## Ordering Information

### Available Modules

MiiNePort E2-SDK: Software development kit for the MiiNePort E2 Series, MiiNePort E2 module included

Note: For a list of applicable modules available for order, please refer to the MiiNePort E2 datasheet.

### Package Checklist

- MiiNePort E2-SDK module
- MiiNePort E2-SDK evaluation board
- Universal power adaptor
- 2 power cords
- USB cable
- Null modem cable
- Cross-over Ethernet cable
- Documentation and software CD
- Quick installation guide (printed)
- Warranty card