MiiNePort E1-SDK

MiiNePort E1 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 E1-SDK is a powerful and versatile software suite for proprietary firmware development on the MiiNePort E1. To expedite time-to-market, the MiiNePort E1-SDK provides comprehensive tools for development, testing, and mass-production. The software development kit includes:

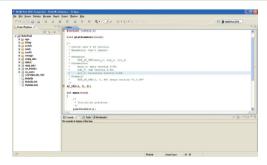**MiiNePort-IDE** - integrated platform for development of serial-to-Ethernet firmware.

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.
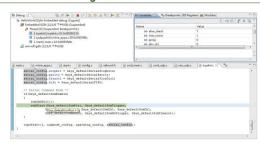
MiiNePort–IDE (Eclipse-based Software Development Tool)

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

MOXA®

Specifications

Supported Hardware
MiiNePort E1
MiiNePort E1-H
MiiNePort E1-T
MiiNePort E1-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)
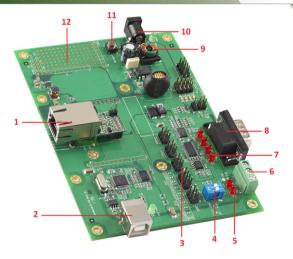8. UDP echo
9. UDP to serial

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

Hardware Evaluation Board

Number	Description
1	MiiNePort E1 Module
2	USB Type B Connector (Debug)
3	Configurable Pin/Serial Interface Jumper
4	Digital Input Switch
5	Digital Ouput LED
6	DIO Terminal Block
7	Serial Line LED
8	Serial Port
9	Power LED
10	Power Jack
11	Restart Button
12	Circuit Pad

Ordering Information

Available Modules
MiiNePort E1-SDK: Software development kit for the MiiNePort E1 Series, MiiNePort E1 module included
Note: For a list of applicable modules available for order, please refer to the MiiNePort E1 datasheet.

Package Checklist
- MiiNePort E1-SDK module
- MiiNePort E1-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