

Summary Data Sheet

HelloDevice 1300 Ethernet and Serial Communication Board

Last updated: 3 August, 2000



The small size of the 1300 board can be easily embedded in a parent device.

Description

The 1300 "HelloDevice" board is a complete internet controller and web server solution for manufacturers and system integrators, who need a way to rapidly create internet-ready devices.

Existing devices that have a serial interface can use the 1300 board to connect to the internet by mapping the serial protocol to the standard TCP/IP which then gives it all the built-in functionality such as the web server or client email.

The board is preprogrammed to achieve a true plug and play Internet solution for new devices that are designed to be network-enabled.

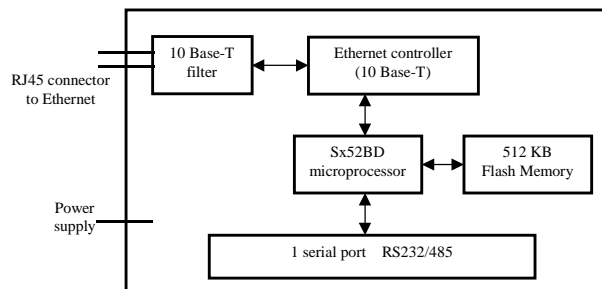
The board is preloaded with the embedded web server and can be customized with HTML pages and Java™ applets. Client communicates with this controller through the standard web browsers.

The mechanical dimensions of the board are approximately 86mm x 53mm.

Interface connector provides one serial port of RS-232 or RS-485.

- Customizable Web server
- 10Base-T Ethernet interface
- RS-232/485 interfaces
- Built-in TCP/IP stack
- 5V DC Power (200mA nominal)
- Utility software
- Dimensions 86mm x 53mm

A simple block diagram of the 1300 board:



The 1300 HelloDevice may be ordered from this Web site: <http://www.sena.com>.

Question may also be directed to:

Sena Technologies, Inc.
 Tel: +82-2-529-7025
 Email: hellodevice@sena.com

Key Specifications / Features

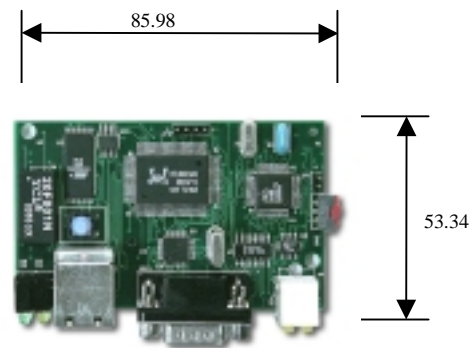
- ◆ Processor and Memory:
 - Scenix SX52BD
8 bit microprocessor, 50 MIPS
 - 512KB Flash Memory is provided for Web resource files and control parameters.
- ◆ Network Interface:
 - 10Base-T Ethernet MAC and PHY interface with a built-in RJ45 Ethernet connector
 - TCP/IP stack and web server firmware included
 - An Ethernet MAC and default IP address comes pre-assigned with each board. The IP address can be modified from utility software provided.
- ◆ TCP/IP stack protocols
 - ARP
 - IP/ICMP
 - TCP/UDP
 - HTTP/BOOTP
- ◆ Device Interfaces:
 - One channel serial port (RS-232/485)
 - Variable to 38400 baud rate
- ◆ Power Requirements:
 - Supply voltage = 5 V DC \pm 10%
 - Supply current = 200 mA (nominal)
- ◆ Environmental:
 - Operating temperature: 0 to +70C
 - Humidity: 5 - 95%, non-condensing
 - Storage temperature: -40 to +125C

Utility software:

- ◆ Platform
 - Windows 95/98/NT/2000
- ◆ Function
 - BOOTP server with IP setup/change/clear functions
 - Web resource files build/upload
 - Low-level monitor commands

Physical Properties:

- ◆ Size
 - 86mm L x 53mm W x 16mm H



Top view of 1300 HelloDevice board:

