

# Summary Data Sheet

## HelloDevice 132x Ethernet and Serial Communication Device

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*HD1320E can easily turn any RS232 serial device into a network device.*

- 10Base-T Ethernet Interface
- RS232 Serial Interface
- Built-in TCP/IP stack
- 7.5 - 9V DC Power (150mA min.)
- Utility Software

## Description

The HD132x "HelloDevice" series is a dedicated RS232-to-TCP/IP protocol converter for system integrators and end-users, who need a way to rapidly Internet-enable their devices.

The HD132x series can operate as a TCP communication server or client. It can transfer serial data automatically from the serial device to the pre-defined server in TCP/IP protocol, or vice versa.

An existing device or a new device that has an RS232 serial interface can use the HD1320E or HD1320/HD1321 to connect itself to the Internet by mapping the serial protocol to the standard TCP/IP.

### Benefits:

- Turn any RS232 serial device into a network device instantly
- Reduce time-to-market of a new product significantly
- Replace dedicated PCs with low-cost and reliable networking technology
- Compact size
- Easy integration with any RS232 serial device and existing software

### Application:

- Access Control System
- Security System
- POS System
- Medical Monitoring System
- Remote Metering
- Building Automation
- Factory Automation
- Remote Display

More information can be found on the company website at <http://www.sena.com>.

Question may also be directed to:

Sena Technologies, Inc.

Tel: +82-2-529-7025

Fax: +82-2-573-7710

Email: [hellodevice@sena.com](mailto:hellodevice@sena.com)

## Key Specifications / Features

- ◆ Processor and Memory:
  - Ubicom SX52BD, 50 MIPS
  - 32KB SRAM to provide buffering space for incoming data from the serial port
- ◆ Network Interfaces:
  - HD1320/HD1320E: 10Base-T Ethernet MAC and PHY interface with a built-in RJ45 Ethernet connector
  - HD1321: 10Base-T Ethernet MAC and PHY interface
  - Supports static and dynamic IP address
- ◆ Protocols Supported:
  - ARP, IP/ICMP
  - TCP/IP Server and Client
  - DHCP Client
- ◆ Device Interfaces:
  - HD1320/HD1320E: One channel Male DB9 RS-232 serial port
  - HD1321: One channel TTL RS232 serial port
  - Serial Speeds: 150bps to 115Kbps
  - Signals: Rx, Tx, RTS, CTS, GND
  - Flow Control:
    - Software XON/XOFF
    - Hardware RTS/CTS
- ◆ Management:
  - HelloDevice Utility Software
  - Security Level: ID/Password
- ◆ Power Requirements:
  - Supply Voltage:
    - ※ HD1320E/1320: 7.5 - 9 VDC
    - ※ HD1321: 5V DC ±10%
  - Supply Current: 150 mA min.
- ◆ Environmental:
  - Operating Temperature: 5° to 50°C
  - Storage Temperature: -40° to 66°C
- ◆ Agency Approvals: (Only for HD1320E)
  - CE
  - FCC Class A

## Utility software

- ◆ OS Supported:
  - Windows 95/98/ME/NT/2000
- ◆ Functions:
  - DHCP server with IP Find/Clear functions
  - System parameter configuration function including TCP/IP communication mode and RS232 parameters
  - Password Confirm/Change functions

## Physical Properties

- ◆ Size (L x W x H)
  - HD1320E: 98mm x 66mm x 30mm
  - HD1320: 86mm x 53mm x 16mm
  - HD1321: 41mm x 38mm x 16mm
- ◆ Weight
  - HD1320E / HD1320 / HD1321: 108g / 44g / 10g

## Ordering Information

### HD1320E

- External type
- Includes:
  - ※ User Guide,
  - ※ Utility Software,
  - ※ Serial Cable,
  - ※ 110V/230V Power Supply, and
  - ※ Mounting Kit



### HD1320

- Board type
- Includes:
  - ※ Board only



### HD1321

- Module type
- Includes:
  - ※ Board only

