NePort™ Series

The most compact Embedded Serial-IP module

Features

> Easily network-enable multiple serial devices

> RS-232/485/422 provides an easy connection to any serial device

>Neport series for COM or TTY port control and management

> Management and diagnostic utility for simple and efficient device monitoring and troubleshooting

> Modem emulation allows existing modem-based applications to make connections over IP networks

> Port buffering for data capture

> Easy configuration through web interface

> TELNET for easy remote management

> Tunable for low latency or optimized throughput

Overview

   The NePort™-485 is the most compact, integrated solution available to web-enable any device with an RS-422 or RS-485 serial interface. By simply adding NePort-485 to a product design, device manufacturers cut their design cycle by as much as 80% and are able to offer Ethernet connectivity in record time.

The NePort-485 is configurable for either RS-422 4¬wire or RS-485 2-wire communication. It supports multi-drop RS-485 networks by providing a logic level serial interface designed to connect directly to an RS¬485 transceiver chip. In the RS-485 2- wire mode, one of the PIO pins supplies the necessary transmit enable signal.

Multi-threads operation system and protocols Support

- With multi-threads real time operation system embedded in a 32bits RISC
- ARP, UDP, TCP, ICMP, Telnet, TFTP, AutoIP, DHCP, HTTP, for network communications.
- TCP, UDP, and Telnet for connections to the serial port.
- TFTP for firmware updates.(E version)
- IP for addressing, routing, and data block handling over the network.
- User Datagram Protocol (UDP) for typical datagram applications in which devices interact with other devices without maintaining a point-to-point connection.
- SMTP: E-mail alerts

Specifications

CPU：32bits RISC ARM7TDMI 55DMIPS

Memory：128KB/256KB SRAM

       256KB/512KB Code space + 32KB Boot

LAN Interface：10/100 Mbps auto-sensing

Serial Signals：

    TTL：TXD,RXD, GND

Serial parameters：

  Flow Control：RTS/CTS、XON/XOFF

  data bits：5,6,7,8

  Stop bits：1,2

  Parity: odd、even、none

  Speed: 110 bps to 460800 bps

     110 bps to 921600bps (EN version)

Digital I/O Pins: two programmable I/O

Software Features：

  Utilities：Network Administration Suite for Windows 95/98/ME/NT/2000/XP/2003

  OS Driver Support：Windows 95/98/ME/NT/2000/XP/2003/XP x64/2003 x64 COM driver，Linux real
         TTY，UNIX

  Configuration：Web/Serial/Telnet Console or windows Utility

  Operation Models：TCP Server、TCP Client、UDP uni-cast and Multi-Cast

Power Requirements:

  Power input：3.3 VDC, +/-5%

  Power consumption：150mA

Temperature /Humidity:

  Operation: 0°C to +70°C (32°F to 158°F)，5% to 95% RH (Commercial mode)

       -40°C to +80°C (-40°F to 176°F)，5% to 95% RH (Industrial mode)

  Storage：-40°C to +80°C (-40°F to 176°F)，5% to 95% RH

NePort series Evaluation Board

> Complete, ready to use module and supporting evaluation board

> +9VDC Universal Power adaptor

> RS-232 cable, DB9 M/F

> CAT5e UTP RJ45M/M Ethernet cable

> Software CD-ROM containing a configuration utility、Conextop's
  Installer and complete user manual in PDF