

User's Manual of Serial Server /Terminal Server

1.1 Introduction

Welcome to use our series of terminals/ serial server (Hereinafter referred to as IOLAN), IOAN is a converter between Asynchronous serial port(RS-232/RS-422/RS-485)and Ethernet RJ45 port, as well as a independent intelligent device with CPU, built-in OS, and complete TCP / IP protocol stack. It completed the conversion between RS-232 format data and Ethernet IP data, and thus to add network savvy to traditional serial device.

1.2 Features

- There are 1, 2, 4, 8, 16, 32 interface
- 10/100M self-adaptive Ethernet interface
- RJ45/25 Stylus, RS232 male connector plug, DTE style
- Support for multiple hosts to share with equipment
- Drive the COM port under the Windows NT/2000/XP platform
- Fixed TTY Driver under the SCO Unix platform
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- PPP dial-up connection authentication (PAP/CHAP/RADIUS)
- Simple-to-use management program under the Windows platform
- Provide security mechanisms of network access (IP / MAC)
- Offer all the C source code to visit IP under the Socket platform to visit IP and use IP serial ports under any OS supporting TCP/IP

1.3 Specifications

CPU: 32 bit 100MHz

Memory: 8 MB

Ethernet speed: 10/100 Mbps, self setting, and support manually operation.

Communication mode:

10M-semiduplex and 10-full duplex, 100M-semiduplex and 100M-full duplex

Interface protection: 15KV electromagnetic isolation

Serial port: From 1 to 32 RS-232/RS422/RS485

Ports connection type:

Ethernet port: RJ45;

RS232/422/485port: RJ45 (single serial ports are DB9 pin)

Signal:

RS232: TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND

RS485 HALF: DATA+, DATA-, GND

RS485 FULL: TxD+, RxD+, TxD-, RxD-, GND

RS422: TxD+, RxD+, TxD-, RxD-, GND

The data bit of the communication parameter in the serial ports: 5, 6, 7, 8

Examination: None, Even, Odd, Space, Mark

Stop bit: 1, 1.5, 2

Flow control: RTS/CTS, XON/XOFF

Speed: 300 bps to 460800 bps

Protocol: DHCP, Telnet, TCP, UDP, IP, ICMP, ARP

Real Com Driver: Windows NT/2000/XP/7,

TTY Driver: SCO UNIX, Linux

Configuration: by the serialization of CONSOLE port in RS-232, Telnet

Indicator light:

Power Indicator in serial ports (Power), Link Ethernet/transmit-receive light (Link/ Act), indicator light for the speed of Ethernet (100/10), receive (Rx), transmit (Tx)

Work Mode:

Drive mode under Windows, log-in mode, Socket Mode、Serial ports-PPP Mode, LPD print mode

Software support:

Configuration systems under the Windows NT/2000/XP platform and COM Port Driver

Configuration under the SCO Unix/LUNIX platform and tty Driver

Explore C source program under the TCP/IP cross-platform

Power Input: 110~230V AC,9~48V DC

Operating Temperature: -10 to 70 ℃

Operating Humidity: 5 to 95%

Store Temperature: -40 to 80 ℃