ZLSN2000

Serial to Ethernet Module



DIRCTLY

1.	SUMMARY					
	1.1. Characteristic of ZLSN2000	3				
2.	Parameters					
3.	Pin define					
	CIRCUIT	7				
	4.1.1. ZLSN2000	7				
	4.1.2. ZLSN3000 Introduction	7				
5.	USE WEB TO CONFIG ZLSN2000					
6.	USE VIRCOM WINDOWS UTILITY TO CONFIG	12				

1. Summary

ZLSN2000 is a serial to Ethernet module. It can transparently convert serial data to TCP/IP data, and converts TCP/IP data to serial simultaneously. It has one serial port and one Ethernet port.



Figure 1 ZLSN2000

1.1. Characteristic of ZLSN2000

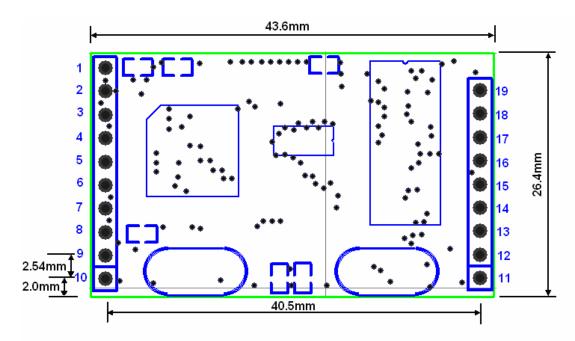
- 1. Full Duplex, high stability.
- 2. Low cost serial to Ethernet solution.
- 3. Support TCP Server, TCP Client, UDP mode
- 4. Suppor DHCP, DNS.
- 5. Serial baund rate: 1200 to 460800bps

2. Parameters

Figure		Portocol support			
Connecting 19pin module		TCP, UDP ,HTTP, ARP, ICMP, DHCP, DNS			
type:					
Dimension: 43 x 26mm		Work mode			
Communic	cation interface	TCP SERVER, TCP CLIENT, UDP			
Ethernet:	10Mbps	Power			
Serial:	TTL(5V): RXD, TXD,CTS,	Power:	DC5V(\pm 5%), less than 45mA		
	RTS				
Serial para	ameters	Envirment require			
Baund rate:	1200~115200bps	Temperature:	Commerce	0~70℃	
			Industry:	-45~85℃	
Parity:	None, Odd, Even, Mark,	Storage:	Commerce	-45~165°C	
	Space		Industry:	-45~165℃	
Databits:	5-9				
Flow	RTS/CTS, NONE				
control:					

3. Pin define

Pins of ZLSN2000 is defined as following:



PIN	Name	Direction	PIN	Name	Direction
1	MODE	IN			
2	GND	IN	19	LINK	OUT
3	VCC	IN	18	ACT	OUT
4	RST	IN	17	DEF	IN
5	SPA	OUT	16	TPOUT+	OUT
6	SPR	IN	15	TPOUT-	OUT
7	CTS	IN	14	TPIN-	IN
8	RTS	OUT	13	TPIN+	IN
9	RXD	IN	12	LED_R	OUT
10	TXD	OUT	11	LED_S	OUT

- 1. TXD,RXD: serial port
- 2. CTS, RTS: serial port flow control. If RTS is 0, ZLSN2000 can receive data from RXD; Only when CTS is 0, ZLSN2000 can send data if flow control is

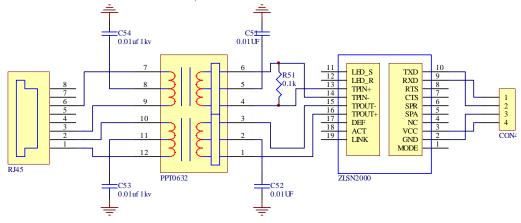
enabled.

- 3. LED_S, LED_R: Ethernet sending and receiving indicating led. When sending, LES_S becomes low level; when reciveing LED_R becomes low level.
- 4. MODE: not used.
- 5. DEF: If this pin is low level, ZLSN2000 will load the default parameters, when power on.
- 6. ACT: Means data coverting is under processing.
- 7. LINK: Measns TCP connection is established or ZLSN2000 is in UDP work mode.
- 8. TPIN+, TPIN-, TPOUT-, TPOUT+: Ethernet pins.
- 9. SPR: reserved.
- 10. SP: reserved.
- 11. RST: low level to reset modual.

4. Circuit

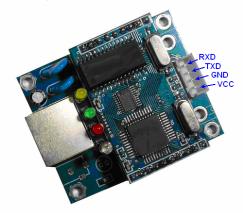
4.1.1. ZLSN2000

Following is the circuit showing how to use ZLSN2000 in user circuit board. PPT0632 is a Ethernet transformer, which is available from us.

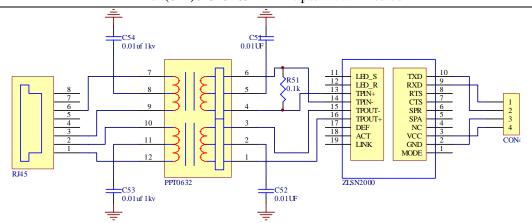


4.1.2. ZLSN3000 Introduction

For user's convenience, we provide ZLSN3000, which has a RJ45 port and only 4 lines (VCC, GND, RXD, TXD) to connect to user circuit board.

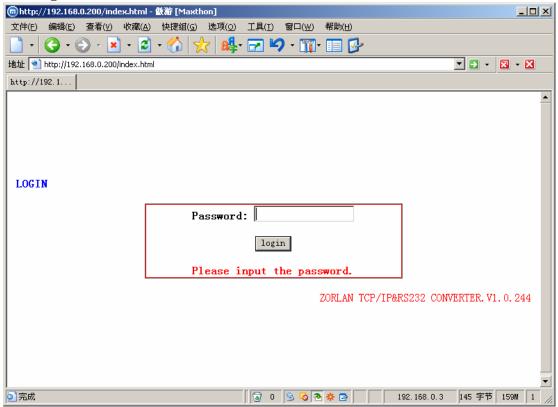


Following is the cuirt of ZLSN3000.



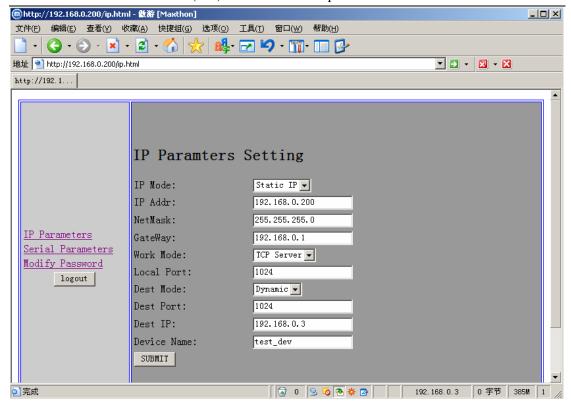
5. Use web to config ZLSN2000

Login:

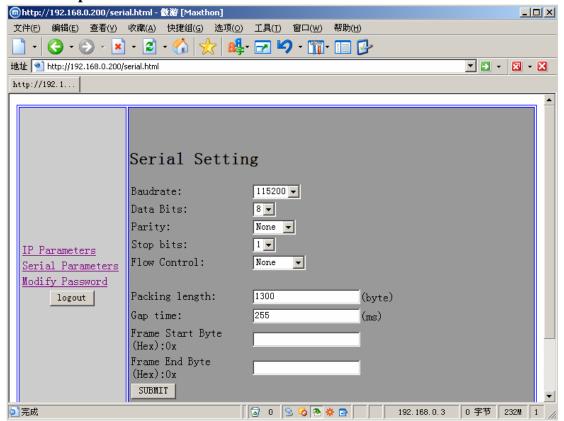


Net parameters:

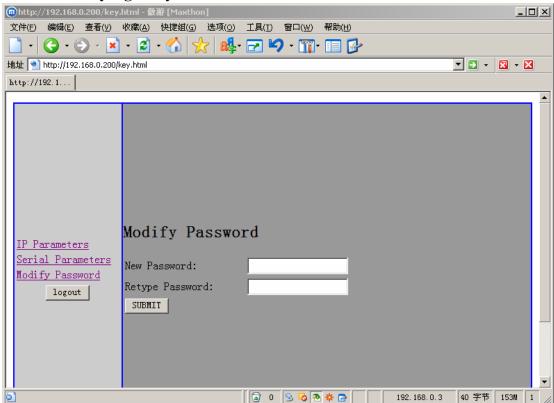
Tel:(021)64325189 http://www.zlmcu.com



Serial parameters:

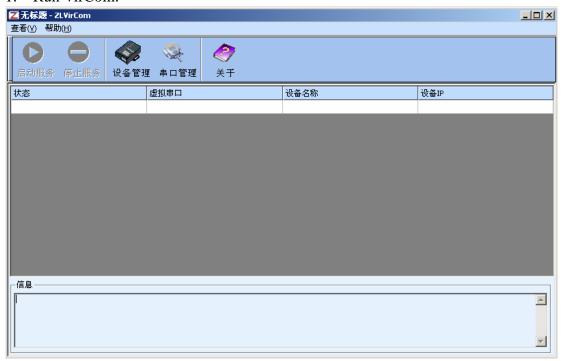


Modify login key:

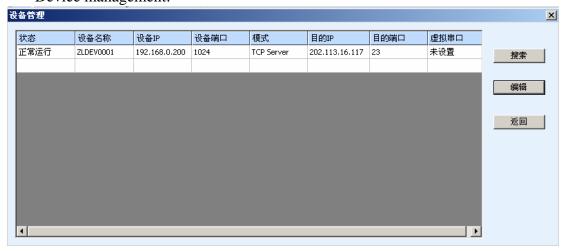


6. Use VirCom windows utility to config

1. Run VirCom:



Device management:



Parameter setting:

