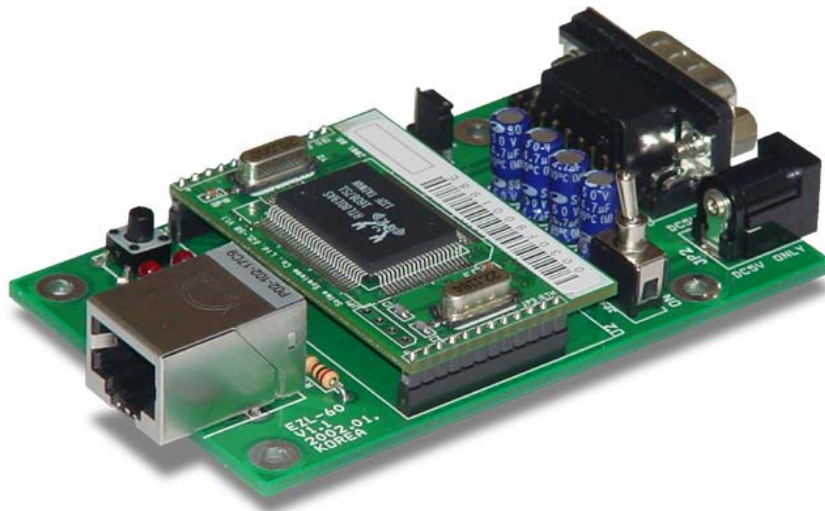


# ezTCP/LAN(EZL-60)

## User's Manual

Revision B



# 1. Introduction

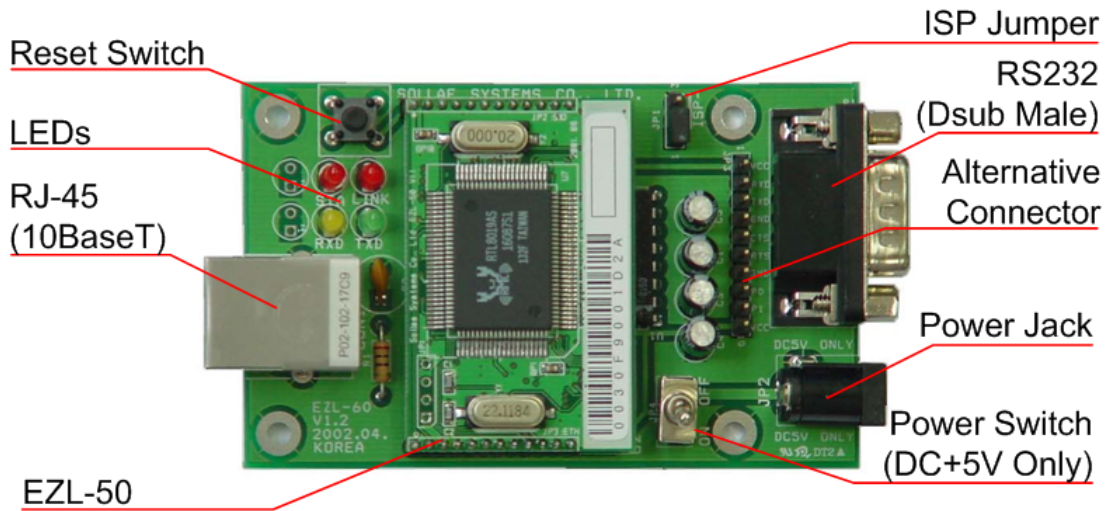
## 1.1. Components

- ☞ EZL-50
- ☞ RS232/10BaseT Interface Board
- ☞ RS232 cable (option)
- ☞ DC 5V SMPS power adapter(option)

## 1.2. Specifications

- ☞ Processor : TS87C54X2 / TS87C51U2
- ☞ Memory : ROM 64K / RAM 32K
- ☞ Interface : 9 pin Dsub female(serial)  
RJ-45(ethernet)  
1X10 100mil pitch connecter(alternative)
- ☞ Protocols : TCP/UDP/IP/ICMP, Ethernet, ARP, PPPoE,  
DHCP
- ☞ Power : DC 5V  $\pm 10\%$   
Current: 120mA typically

### 1.3. Ports

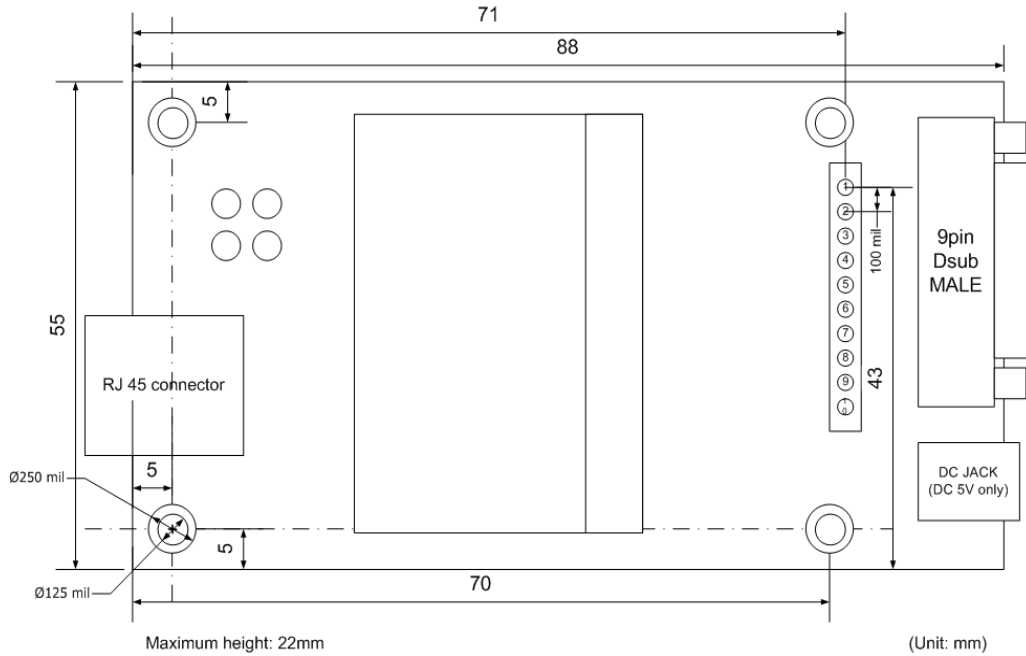


## 2. Operations

- ※ Refer to the manual of EZL-50 from our website (<http://www.eztcp.com/en/Support>)

### 3. APPENDIX

#### 3.1. EZL-60 dimension



#### 3.2. 9 pin Dsub male connector(P1)

1	NC	-	
2	RXD	RXD	RS232 level
3	TXD	TXD	RS232 level
4	DTR	DTR	DSR과 loop back
5	GND	Ground	
6	DSR	DSR	DTR과 loop back
7	RTS	RTS	RS232 level
8	CTS	CTS	RS232 level
9	NC	-	

### 3.3. EZL-60 alternative connector(JP3)

1	VCC	VCC(DC 5V)	
2	RXD	RXD	RS232 level
3	TXD	TXD	RS232 level
4	GND	Ground	
5	CTS	CTS	RS232 level
6	RTS	RTS	RS232 level
7	GND	Ground	
8	P0 <sup>1</sup>	TCP Connect Notifier (Active Low)	TTL level
9	P1	reserved	TTL level
10	VCC	VCC(DC 5V)	

1) during TCP connection : LOW / during TCP disconnected : HIGH

### 3.4. ISP Jumper (JP1)

1	2	3	Description
			Normal Communication mode
			ISP mode(firmware download mode)

※ EZL-60 checks the ISP pin when it boots up.

### 3.5. LEDs

LED	color	operation
STA (STATUS)	RED	blinking every 1 second: it has fixed IP address or allocated dynamic IP address during TCP disconnected.
		blinking 4 times shortly: it isn't allocated IP address when it is set as dynamic IP address
		blinking very fast: ISP mode
		ON: during TCP connection
LINK	RED	ON: ethernet cable is connected to a hub or a host correctly
RXD	YELLOW	ON: when there are any packets over the LAN
TXD	GREEN	ON: when EZL-60 sends packets over the LAN

## 4. Technical Support, Warranty, and Notes on Operation

### 4.1. Technical Support

If you have any question regarding operation of the product, visit Customer Support FAQ corner and the message board on Sollae Systems' web site or send us an email at the following address:

Website Address for Customer Support:

<http://www.sollae.co.kr/Support/index.html>

Email Address: [support@sollae.co.kr](mailto:support@sollae.co.kr)

### 4.2. Warranty

#### 4.2.1. Refund

Upon the customer's request to refund the product within two weeks after purchase, Sollae Systems will refund the product.

#### 4.2.2. Free Repair Services

For product failures occurring within one year after purchase, Sollae Systems provides free repair services or exchange the product. However, if the product failure is due to user's fault, repair service fees will be charged or the product will be replaced at user's expense.

#### 4.2.3. Charged Repair Services

For product failures occurring after the warranty period (one year) or resulting from user's fault, repair service fees will be charged and the product will be replaced at user's expense.

#### 4.2.4. Notes on Operation

- Sollae Systems is not responsible for product failures occurring due to user's alteration of the product.
- Specifications of the product are subject to change without prior notice for performance improvement.
- Sollae Systems does not guarantee successful operation of the product if the product was used under conditions deviating from the product specifications.
- Reverse engineering of firmware and applications provided by Sollae Systems is prohibited.
- Use of firmware and applications provided by Sollae Systems for purposes other than those for which they were designed is prohibited.
- Do not use the product in an extremely cold or hot place or in a place where vibration is severe.
- Do not use the product in an environment in which humidity is high or a lot of oil exists.
- Do not use the product where there is caustic or combustible gas.
- Sollae Systems does not guarantee normal operation of the product under the conditions a lot of noise exists.
- Do not use the product for a purpose that requires exceptional quality and reliability relating to user's injuries or accidents - aerospace, aviation, health care, nuclear power, transportation, and safety purposes.
- Sollae Systems is not responsible for any accident or damage occurring while using the product.