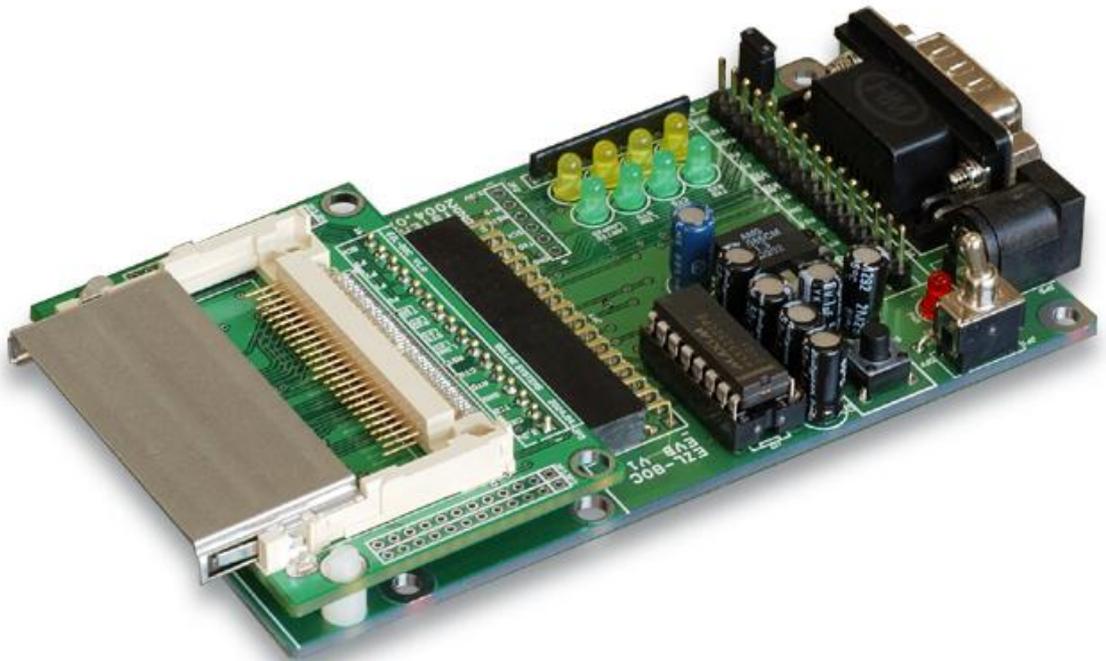


EZL-90 Manual

Version 1.1





To all residents of the European Union

Important environmental information about this product

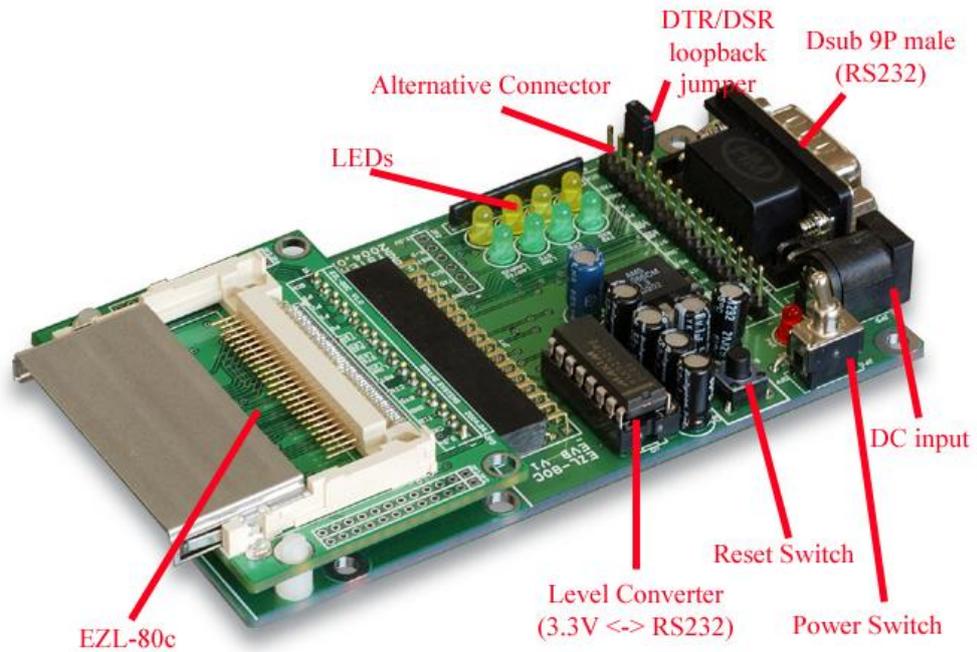
This symbol on this unit or the package indicates that disposal of this unit after its lifecycle could harm the environment. Do not dispose of the unit as unsorted municipal waste; it should be brought to a specialized company for recycling. It is your responsibility to return this unit to your local recycling service. Respect your local environmental regulation. If in doubt, contact your local waste disposal authorities.

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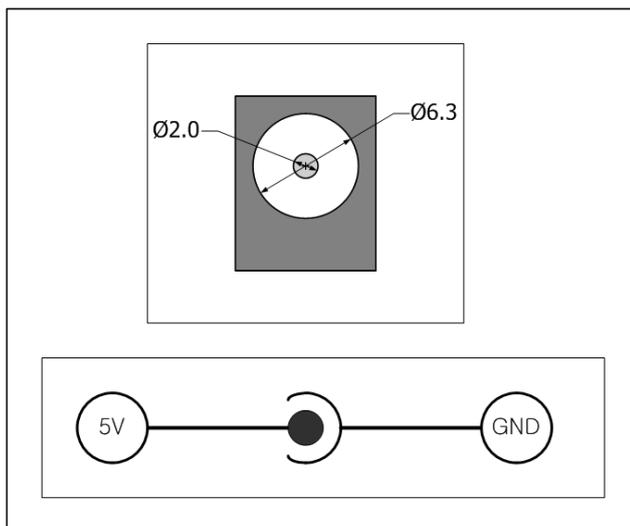
1. Interface

EZL-90 is a daughter board which supplies 3.3V power to EZL-80c and an interface of RS232 to the EZL-80c.



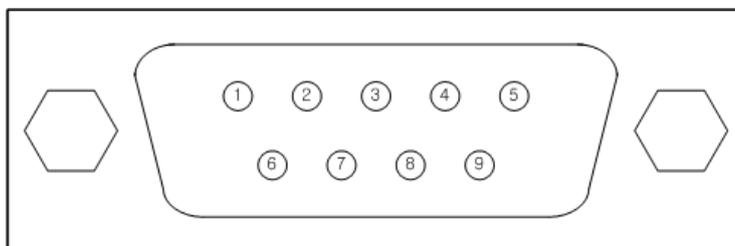
1.1. DC Input (JP5)

DC5V is required to EZL-90 and the specification is below:



EZL-90 supplies 3.3V to the EZL-80c after regulating.

1.2. Dsub 9P male (P1)



number	name	description	level	Dir.	Etc.
1	-	-	-	-	-
2	RXD	Receive Data	RS232	Input	Mandatory
3	TXD	Transmit Data	RS232	Output	Mandatory
4	DTR	Data Terminal Ready	-	-	Optional
5	GND	Ground	Ground	-	Mandatory
6	DSR	Data Set Ready	-	-	Optional
7	RTS	Request To Send	RS232	Output	Optional
8	CTS	Clear To Send	RS232	Input	Optional
9	-	-	-	-	-

DTR and DSR can be loop backed with a DTR/DSR loopback jumper (JP6). See the below section for more information.

1.3. DTR/DSR loopback jumper (JP6)

Some devices require DSR signal (DTR in terms of EZL-90). The devices recognize the counterpart serial device with DSR. To get DSR signal from the counterpart serial device, the counterpart serial devices have to signal DTR.

EZL-90 has no DTR signal, but it has DTR/DSR loopback jumper. If user set the jumper, EZL-90 returns its DSR signal from user device to DTR so that user device recognizes the EZL-90.

1.4. Alternative Connector (JP8)

#	Name	Voltage Level	Connection with EZL-80c	Connection with P1
1	3.3V	3.3V Power	3.3V	
2	RXD	RS232	RXD0 via line driver	RXD
3	TXD	RS232	TXD0 via line driver	TXD
4	GND	Ground	GND	GND
5	RTS	RS232	RTS0 via line driver	RTS
6	CTS	RS232	CTS0 via line driver	CTS
7	RST	3.3V	RESET	
8	LINK	3.3V	LINK_LED	
9	STS	3.3V	STS_LED	
10	LAN RXD	3.3V	RXD_LED	
11	LAN TXD	3.3V	TXD_LED	
12	P0	3.3V	P0	
13	P1	3.3V	P1	
14	RXD1	3.3V	RXD1	
15	TXD1	3.3V	TXD1	
16	SCK	3.3V	SCK	

1.5. LEDs

Name	Color	Description
PWR	Red	On: when power is on
RXD	Yellow	Blink: when EZL-80c receives data from the serial port
TXD	Green	Blink: when EZL-80c transmits data to the serial port
RTS	Green	On: when RTS0 of EZL-80c is active (low)
CTS	Yellow	On: when CTS0 line of EZL-80c is active (low)
STS	Yellow	The status of EZL-80c
LINK	Green	On: when EZL-80c is linked to the wireless LAN

LANRXD	Yellow	Blink: when EZL-80c receives data from the wireless LAN
LANTXD	Green	Blink: when EZL-80c transmits data to the wireless LAN

1.6. LED classified with operation mode

Mode	Name	Status	Description
Normal mode	PWR	On	Power is supplied
	STS	Blinks in every second	IP is allocated but TCP connection is not established.
		Blinks 4 times /sec	IP address is net assigned in DHCP or PPPoE modes.
		On	TCP is connected
	LINK	On	EZL-80C is connected to the WLAN
	RXD	Blinks	Receiving data from the serial
	TXD	Blinks	Transmitting data to the serial
	LAN_RXD	Blinks	Receiving data from the WLAN
	LAN_TXD	Blinks	Transmitting data to the WLAN
	RTS	On	There are enough rooms to receive data
		Off	There aren't enough rooms to receive data
	CTS	On	Counterparts' buffer is enough to receive data
		Off	Counterparts' buffer isn't enough to receive data
ISP /Serial Config mode	PWR	On	EZL-80C is in the ISP / Serial Config mode
	STS	Blinks rapidly	
	LINK	Off	

1.7. Switches

1.7.1. Power Switch (JP1)

The Power Switch turns EZL-90 on.

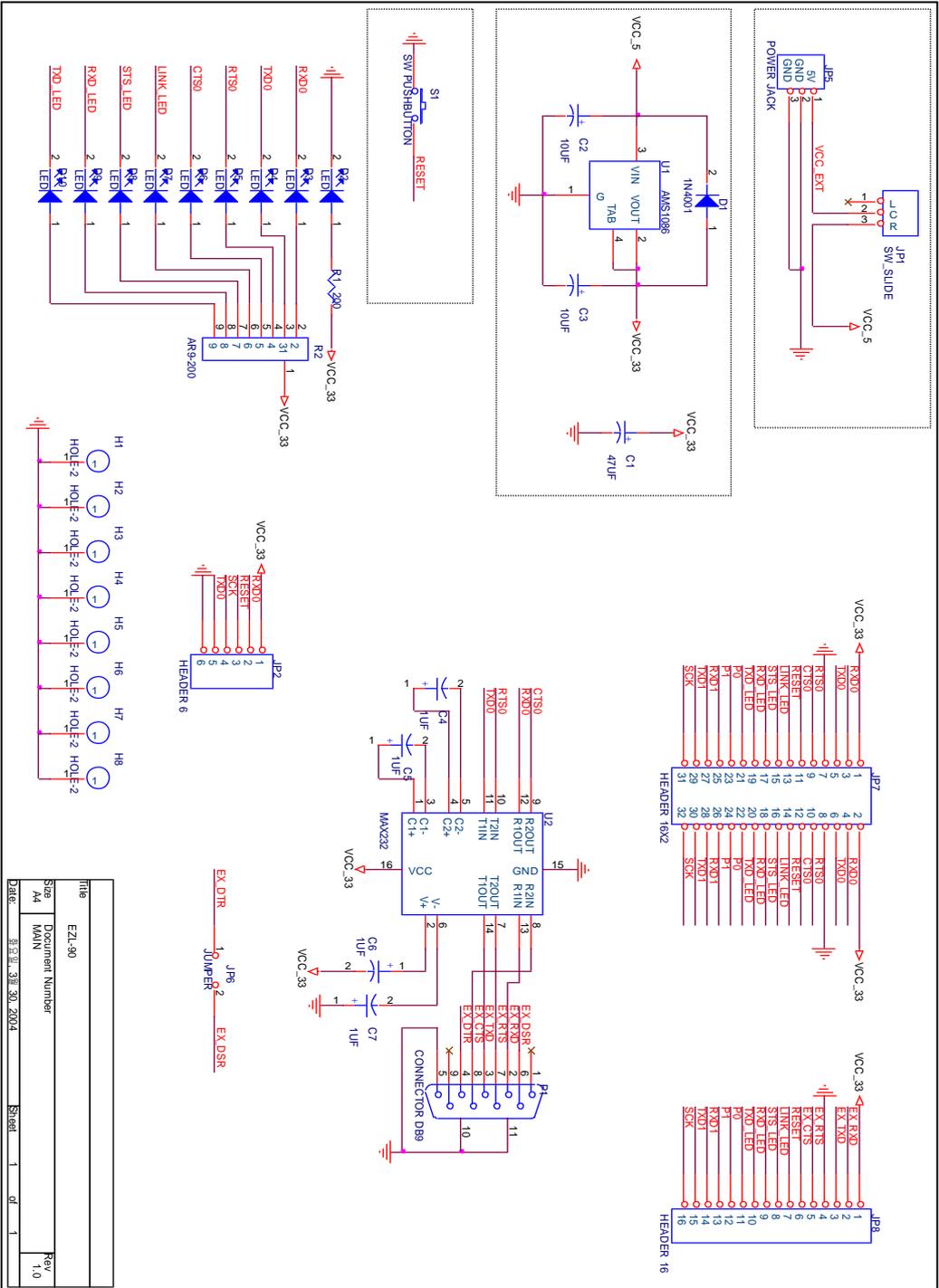
1.7.2. Reset Switch (S1)

Reset Switch resets EZL-90. And it is connected to RST of JP8.

1.8. Level Converter (U2)

It converts TTL signal of EZL-80c to RS232 signal via versa.

2. Schematics



Title	EZL-90
Size	A4
Document Number	MANV
Date	2004.3.30
Sheet	1 of 1
Rev	1.0

3. Technical Support, Warranty, and Notes on Operation

3.1. 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: support@eztcp.com

Website Address for Customer Support:

<http://www.eztcp.com/en/Support/support.php>

3.2. Warranty

3.2.1. Refund

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

3.2.2. 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.

3.2.3. 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.

3.2.4. Notes on Operation

- Sollae Systems is not responsible for product failures occurring due to user's alternation 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.

4. Revision History

Date	Version	Comment
Aug. 08. 2006	1.0	The first Release
Mar.24.2009	1.1	Add 1.6 LED classified with operation mode Correct some expressions Modify 3.1 Technical Support