## Application Note

# **Upgrading Firmware of EZU-100**

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### 1 Firmware Upgrade

#### 1.1 Introduction

Downloading F/W of EZU-100 can be implemented via its serial port. EZU-100 checks its ISP pin when it boots up. If the pin is high, EZU-100 will be operated as normal mode. Otherwise, it operates as ISP mode.

This document is based on EVB interface.

### 1.2 Firmware Upgrade

#### 1.2.1 Preparation

After inserting EZU-100 into EZU-100 EVB, set JP7 of EZU-100 EVB to ISP. And connect a serial cable to PC's COM port and Power it on.

#### 1.2.2 Run uflash

Run uflash.

uflash is a software for sending F/W file through serial.



Fig 1-1 Initial window of uflash

#### 1.2.3 Configuring Port

• Disconnect the default serial connection with [Action] -> [Disconnect].

🔟 EZU-100 uflash v2,1d	
<u>Action</u> <u>S</u> ettings About	
<u>C</u> onnect Shift+PgUp	
<u>D</u> isconnect Shift+PgDn	
<u>D</u> ownload Shift+F1	
E <u>x</u> it	

Fig 1-2 Disconnecting default connection

• Set as the following with [Settings]. And Select COM port as your environment. In this example, COM8 is used. You should select a COM port which you use.

Serial Port Setting			
- <u>N</u> ormal communication			
<u>P</u> ort:	C0M8		
<u>B</u> aud Rate:	115200 💌		
<u>D</u> ata Bits:	8 👻		
P <u>a</u> rity:	None		
<u>S</u> top Bits:	1 💌		
<u>I</u> nstallation Baud Rate			
(* 115200			
Ok Cancel			

Fig 1-3 Window of Setting



• Open COM port with [Action] -> [Connect]

Fig 1-4 Opening COM port

- 1.2.4 Selecting a Firmware
  - Select a firmware to download with [Action] -> [Download] -> [...]

🖸 EZU-100 uflash v2,1d			_O×	
Action Settings About				
Install		×		
File Name:	5 reset butto 20-1009	" [-]		
Open				<u>?</u> ×
Look jn:	🞯 Desktop		• + 🗈 e	* 💷 •
My Recent Documents Wy Desktop My Documents	My Documents Why Computer Why Network Places Volo View Express 한 한글판 AutoCAD 20 Complish_Manual Complish_Manual Complish_Manual Complish_Manual Complish_Manual Complish_Manual Complish_Manual Compliant Adberd: 010_Lite_e Compliant Compli	C e2Cc II e2Cc M e2Cc M e2Ma 102 C ezp2 II ezp2 I	onfig onfig-090624 onfig10_090728 anager fS0en_v15 fS0en_v15 fS0en_v16 rrm aash16e anager shager shager shager shager shager	ℚ wflash_v
My Computer	•			•
	File name: EZ	J32A	]	• <u>O</u> pen
My Network	Files of type: BIN	I File { <sup>×</sup> . <sup>×</sup> }		Cancel
Places	Γ	Open as <u>r</u> ead-only		

Fig 1-5 Selecting a firmware file

#### 1.2.5 Resetting EZU-100

• If user presses the Reset switch, the firmware will be downloaded automatically.

Install	×
U Pi	ress reset button n EZU-100!
File Name	:
Z:#eztcp#	ł2.firmware₩3.ATMega₩ez 🚺
,	01
	Cancel

Fig 1-6 Reset

🔟 EZU-100 ut	flash v2,1d	
200 SEND 120K	Install	
	Downloading program to EZU-100! File Name:	
	Z:\#eztcp\#2.firmware\#3.ATMega\#ez	
	Cancel	

Fig 1-7 Progressing download

• If the following messages are shown in the main window of uflash, the downloading would have been completed.

🔟 EZU-100 uflas	sh v2,1d	<u> </u>
<u>A</u> ction <u>S</u> ettings	A <u>b</u> out	
<pre>&lt;(CE-31&gt;B 6/20K 102 CRC 0K 102 CRC 0K +000 K +000 +000 +000 +000 +000 +000</pre>	EZU-100 uflash v2.1d 💌 Install Success! 확인	

Fig 1-8 Successful download

1.2.6 Restoring ISP and Reset

Restore the ISP jumper and reset.



## 2 Revision History

Date	Version	Description
2009.09.02	1.0	Created

