Kitchen's Helper Operation Manual

Team 05

B03901026 許凱傑

B03901036 陳博文

B03901142 莊育權

Contents

1. Introduction	1
Kitchen's Helper	1
2. Devices	1
Kitchen's Helper	1
Altera FPGA Cyclone IV DE2_115	
Ports	
3. Operations	3
Procedure	3

1. Introduction

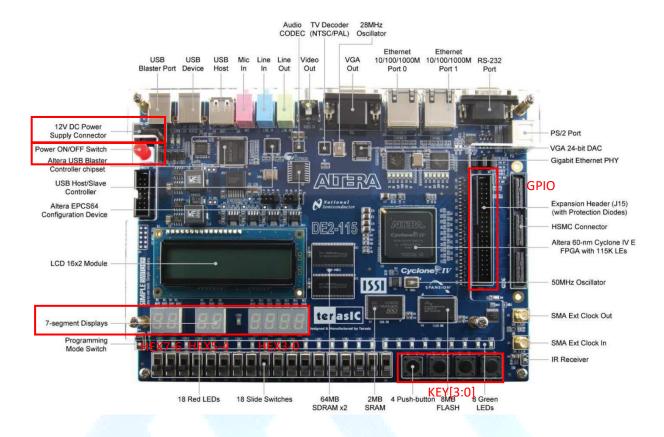
Kitchen's Helper

To deal with the fact that people usually can't focus on cutting food in a kitchen, which may result from that you still need to take care of your kids at the same time or you have to answer a call from your friends. Therefore, this automatic cutting machine can let you do other things while cutting food. This kitchen's helper can help you reduce the burden on cooking.

2. Devices



Altera FPGA Cyclone IV DE2_115



Ports

Port name	Pin name	Function
DC power		Provide power for FPGA
supply		1
ON/OFF switch		Switch
KEY[0]	Reset	Reset the whole FPGA
KEY[1]	Start	Start kitchen's help to automatically cut things
KEY[2] Pause	Dougo	While operating kitchen's helper, you can press this button
	rause	to pause the machine
KEY[3]	Slice	Press this button to choose how many slices you want to cut
		into. Press one time for 2 slices, twice for 4 slices, three
		times for 8 slices and four times for 16 slices
HEX4-0		When you press reset button, this displayer display
		"RESET".
		When you press start button, this displayer display "GO".
		When you press pause button, this displayer display
		"PAUSE".

HEX7-6	Display how many slices you want to cut into
GPIO	Connect to Kitchen's Helper

3. Operations

Procedure

- Step 1. Put a thing you want to cut on Kitchen's Helper platform
- Step 2. Plug power supply line to FPGA.
- Step 3. Press the power switch to turn ON the FPGA.
- Step 4. Press the RESET (KEY[0]) button.
- Step 5. Press Slice (KEY[3]) to choose how many slices you want to cut into. Press one time for 2 slices, twice for 4 slices, three times for 8 slices and four times for 16 slices
- Step 6. Press the Start (KEY[1]) button.
- Step 7. If you want to pause while Kitchen's Helper is operating, press the Pause (KEY[2]) button. And press again Pause (KEY[2]) button to restart it.