ZX-UNO PINOUT SCHEME PCB 4.1 [MAR 2016]

EXPANSION PORT

P58 P51 P47 P44 P40 P33 P29 P24 P21 P15 n/c GND — J10

3.3V P56 P48 P45 P41 P34 P30 P26 P22 P16 P12 GND — J11

5V P57 P50 P46 P43 P35 P32 P27 P23 P17 P14 3.3V — J12

RCA VIDEO CONNECTOR

Pin	Description
1	SIGNAL
2	GROUND

JOYSTICK CONNECTOR

Pin	Atari / VIC-20 / CD32 / Amiga / Sinclair		Master System MSX / Genesis	FPGA
	Description			
1	UP	*Non Autofire	UP	P1
2	DOWN		DOWN	P5
3	LEFT		LEFT	P6
4	RIGHT	Autofire	RIGHT	P7
5	n/c		VCC	JOY_FIRE3 / 5V
6	FIRE 1	FIRE 3	FIRE 1	P2
7	n/c	FIRE 1	FIRE 3	5V / JOY_FIRE3
8	GND	VCC	GND	
9	FIRE 2	GND	FIRE 2	
		FIRE 2		

* JOY_FIRE3 = P39

AUDIO

	FPGA
GND	GND
RIGHT	P9
LEFT	P10

VIDEO RCA

SD CARD

Pin	Description	FPGA
1	CD/DAT3	P59
2	CMD	P74
3	VSS1	
4	VDD	
5	CLK	P75
6	VSS2	
7	DAT0	P78
8	DAT1	?
9	DAT2	?

EXPANSION PORT — J10 J11 J12

JOY SEL

JTAG 654321

JOYSTICK

PS/2 KEYBOARD & MOUSE

PS/2 CONNECTOR

Pin	Description	FPGA
1	KBD DATA	P98
2	MOUSE DATA	P97
3	GND	
4	VCC	5V
5	KBD CLK	P99
6	MOUSE CLK	P95

USB CONNECTOR

5 4 3 2 1

Pin	Description
1	VCC
2	n/c
3	n/c
4	n/c
5	GND

USB POWER

POWER ALT.
+
−
SWITCH EXT.

RGB CONNECTOR

1 2 3 4 5 6 7 8 9

Pin	Description	FPGA
1	GND	
2	VERTICAL SYNC	P85
3	COMPOSITE SYNC	P87
4	3.3 V	
5	RED COMPONENT	{P88, P92, P93}
6	GREEN COMPONENT	{P82, P83, P84}
7	BLUE COMPONENT	{P79, P80, P81}
8	RIGHT AUDIO	P9
9	LEFT AUDIO	P10

RGB CONNECTOR 1 2 3 4 5 6 7 8 9

EAR

	FPGA
EAR	P94
n/c	
GND	

JTAG CONNECTOR

6 5 4 3 2 1

Pin	Description	FPGA
1	3.3V	
2	GND	
3	TCK	P109
4	TDO	P106
5	TDI	P110
6	TMS	P107

ZX-UNO