

XS40 Pin (J1,J3,J18)	Power/ GND	DIP Switch	Push-buttons	LEDs	VGA Interface	PS/2 Interface	RAMs	Stereo Codec	8051 uC	PC Parallel Port	Oscillator	Function
2	+5V											+5V power source
3				LSB0			A0					Left LED segment; RAM address line
4				LSB1			A1					Left LED segment; RAM address line
5				LSB2			A2					Left LED segment; RAM address line
6		DIPSW4						SDOUT	P1.3			DIP switch; codec serial data output; uC I/O
7		DIPSW1					LCEB		P1.0			DIP switch; left RAM chip-enable, uC I/O port
8		DIPSW2					RCEB		P1.1			DIP switch; right RAM chip-enable, uC I/O port
9		DIPSW3						MCLK	P1.2			DIP switch; codec master clock; uC I/O port
10				DB8			D7		P0.7			LED; RAM data line; uC muxed address/data line
13											CLK	XS Board oscillator
14								PSENB				uC program store-enable
15												JTAG TDI; DIN
16												JTAG TCK; CCLK
17												JTAG TMS
18				S5	RED1							XS Board LED segment; VGA color signal
19				S6	HSYNCB							XS Board LED segment; VGA horiz. sync.
20				S3	GREEN1							XS Board LED segment; VGA color signal
23				S4	RED0							XS Board LED segment; VGA color signal
24				S2	GREEN0							XS Board LED segment; VGA color signal
25				S0	BLUE0							XS Board LED segment; VGA color signal
26				S1	BLUE1							XS Board LED segment; VGA color signal
27									P3.7 (RD_)			uC read line
28				RDPB					P2.7			Right LED decimal-point; uC I/O port
29									ALEB			uC address-latch-enable
30												Serial EEPROM chip-enable
32										PC_D6		PC parallel port data output
34										PC_D7		PC parallel port data output
35				DB5			D4		P0.4			LED; RAM data line; uC muxed address/data line
36									RST			uC reset
37			RESETB						XTAL1			Pushbutton; uC clock
38				DB4			D3		P0.3			LED; RAM data line; uC muxed address/data line
39				DB3			D2		P0.2			LED; RAM data line; uC muxed address/data line
40				DB2			D1		P0.1			LED; RAM data line; uC muxed address/data line
41				DB1			D0		P0.0			LED; RAM data line; uC muxed address/data line
44								CCLK		PC_D0		Codec control line; PC parallel port data output
45								CDIN		PC_D1		Codec control line; PC parallel port data output
46								CSB		PC_D2		Codec control line; PC parallel port data output
47										PC_D3		PC parallel port data output
48										PC_D4		PC parallel port data output
49										PC_D5		PC parallel port data output
50				RSB4			A12		P2.4			Right LED segment; RAM address line; uC I/O port
51				RSB2			A10		P2.2			Right LED segment; RAM address line; uC I/O port
52	GND											Power supply ground
54	5.0V/3.3V											5V/3.3V power supply (4000E/4000XL)
55			PROGRAM									XS40 configuration control
56				RSB3			A11		P2.3			Right LED segment; RAM address line; uC I/O port
57				RSB1			A9		P2.1			Right LED segment; RAM address line; uC I/O port
58				RSB5			A13		P2.5			Right LED segment; RAM address line; uC I/O port
59				RSB0			A8		P2.0			Right LED segment; RAM address line; uC I/O port
60				RSB6			A14		P2.6			Right LED segment; RAM address line; uC I/O port
61								OEB				RAM output-enable
62								WEB	P3.6 (WR_)			RAM write-enable; uC I/O port
65								CEB				XS Board RAM chip-enable
66		DIPSW7						LRCK	P1.6	PC_S5		DIP switch; codec left-right channel switch; uC I/O port; PC parallel port status input
67			SPAREB		VSYNCB				P1.7			Pushbutton; VGA vert. sync.; uC I/O port
68						KB_CLK			P3.4 (T0)			PS/2 keyboard clock; uC I/O port
69		DIPSW8				KB_DATA			P3.1 (TXDC_S6)			DIP switch; PS/2 keyboard serial data; uC I/O port; PC parallel port status input
70		DIPSW6						SDIN	P1.5	PC_S3		DIP switch; codec serial input data; uC I/O port; PC parallel port status input
71												JTAG TDI; DIN
72												JTAG TDO; DOUT
73												JTAG TCK; CCLK
75										PC_S7		JTAG TDO; DOUT; PC parallel port status input
77		DIPSW5						SCLK	P1.4	PC_S4		DIP switch; codec serial I/O clock; uC I/O port; PC parallel port status input
78				LSB3			A3					Left LED segment; RAM address line
79				LSB4			A4					Left LED segment; RAM address line
80				DB7			D6		P0.6			LED; RAM data line; uC muxed address/data line
81				DB6			D5		P0.5			LED; RAM data line; uC muxed address/data line
82				LSB5			A5					Left LED segment; RAM address line
83				LSB6			A6					Left LED segment; RAM address line
84				LDPB			A7					Left LED decimal-point; RAM address line

