

管脚描述	FPGA 管脚	
LED		
LED1	C15	
LED2	E15	
LED3	B16	
LED4	A16	
LED5	G15	
LED6	F16	
LED7	C18	
LED8	D16	
LED9	G17	
LED10	B19	
LED11	A18	
LED12	D18	
SW_KEY		
SW_K1	V10	
SW_K2	AA9	
SW_K3	W11	
SW_K4	Y11	
SW_K5	AB10	
SW_K6	AA11	
SW_K7	V12	
SW_K8	U10	
SW_K9	J20	
SW_K10	J18	
SW_K11	K16	
SW_K12	J15	
CLK		
Clk	Y8	
按键		
S1	P15	
S2	N18	
S3	P18	
S4	R16	
S5	T17	
S6	M20	
S7	K18	
S8	K21	
S9	K20	
S10	L19	

S11	M17	
S12	M16	
数码管		
7SEG_A	P16	
7SEG_B	P17	
7SEG_C	N17	
7SEG_D	N15	
7SEG_E	M15	
7SEG_F	L17	
7SEG_G	L18	
7SEG_DP	K19	
7SEL_0	L22	
7SEL_1	P21	
7SEL_2	N20	
交通灯		
R1	AA4	
R2	U12	
Y1	W5	
Y2	AA12	
G1	V4	
G2	Y13	
矩阵键盘		
KB_C0	D17	
KB_C1	C17	
KB_C2	E16	
KB_C3	H17	
KB_R0	G21	
KB_R1	G16	
KB_R2	A17	
KB_R3	B17	
点阵		
DOT_R[0]	AB14	
DOT_R[1]	W16	
DOT_R[2]	U17	
DOT_R[3]	U15	
DOT_R[4]	W15	
DOT_R[5]	Y14	
DOT_R[6]	V14	
DOT_R[7]	V13	

DOT_R[8]	T16	
DOT_R[9]	M19	
DOT_R[10]	N19	
DOT_R[11]	P20	
DOT_R[12]	L21	
DOT_R[13]	M21	
DOT_R[14]	W17	
DOT_R[15]	AA16	
DOT_C0	AB15	
DOT_C1	AB16	
DOT_C2	W18	
DOT_C3	AB17	
DC MOTOR		
MT_PWM	R21	
MT_SPEED	V5	
MOTOR		
STEP_A	N22	
STEP_B	R20	
STEP_C	M22	
STEP_D	P22	
PS2		
KB_DATA	V8	
KB_CLK	AB7	
VGA		
VGA-R	V17	
VGA-G	Y16	
VGA-B	U16	
HSYNC	AA14	
VSNC	Y15	
观测点		
Input-J3	V17	
Output-J4	Y16	
ADC		
ADC_D0	R18	
ADC_D1	Y20	
ADC_D2	U14	
ADC_D3	AA21	

[illegible]