

<pre> 1.LED BLINKING #include "lpc214x.h" void delay(unsigned int k); void main(void) { IODIR0 = 0xFFFFFFF; PINSEL0 = 0; while(1) { IOSET0 = 0x0000ff00; delay(1000); IOCLR0 = 0x0000ff00; delay(1000); } void delay(unsigned int k) { unsigned int i,j; for (j=0; j<k; j++) for(i = 0; i<=800; i++); } 2.DISPLAY ALPHA #include <LPC214X.H> #define DS3 1<<13 #define DS4 1<<12 </pre>	<pre> #define SEG_CODE 0xFF<<16 unsigned char const seg_alphabet[] = { 0x77, 0x7C, 0x39, 0x5E, 0x79, 0x71 }; void delaysms(int n) { int i, j; for(i = 0; i < n; i++) { for(j = 0; j < 5035; j++) {;} } } int main(void) { int count; PINSEL0 = 0; PINSEL1 = 0; IODIR0 = SEG_CODE DS3 DS4; IOSET0 = SEG_CODE DS3; IOCLR0 = DS4; while (1) { for (count = 0; count < 6; count++) { IOCLR0 = SEG_CODE; IOSET0 = seg_alphabet[count] << 16; delaysms(1000); // 1 sec delay </pre>	<pre> } } 3.DISPLAY NUMBERS #include <LPC214X.H> #define DS3 1<<13 // P0.13 #define DS4 1<<12 // P0.12 #define SEG_CODE 0xFF<<16 unsigned char const seg_decimal[] = {0x3F, 0x06, 0x5B, 0x4F, 0x66, 0x6D, 0x7D, 0x07, 0x7F, 0x6F}; void delaysms(int n) { int i, j; for(i = 0; i < n; i++) { for(j = 0; j < 5035; j++) {;} } int main(void) { int count; PINSEL0 = 0; PINSEL1 = 0; IODIR0 = SEG_CODE DS3 DS4 IOSET0 = SEG_CODE DS3; // Disable DS3 display IOCLR0 = DS4; while (1) { for (count = 0; count < 10; count++) { </pre>	<pre> IOCLR0 = SEG_CODE; IOSET0 = seg_decimal[count] << 16; delaysms(1000); } } 4.DISPLAY HEXA DECIMAL #include <LPC214X.H> #define DS3 1<<13 #define DS4 1<<12 #define SEG_CODE 0xFF<<16 unsigned char const seg_hexadecimal[] = { 0x3F, 0x06, 0x5B, 0x4F, 0x66, 0x6D, 0x7D, 0x07, 0x7F, 0x6F, 0x77, 0x7C, 0x39, 0x5E, </pre>	<pre> 0x79, 0x71 }; void delaysms(int n) { int i, j; for(i = 0; i < n; i++) { for(j = 0; j < 5035; j++) {;} } } int main(void) { int count; PINSEL0 = 0; PINSEL1 = 0; IODIR0 = SEG_CODE DS3 DS4; IOSET0 = SEG_CODE DS3; IOCLR0 = DS4; // Enable DS4 Display while (1) { for (count = 0; count < 16; count++) { IOCLR0 = SEG_CODE; IOSET0 = seg_hexadecimal[count] << 16; delaysms(1000); // 1 sec delay } } 5.SQUARE WAVE #include <lpc214x.h> </pre>	<pre> void delay(unsigned int count); void generate_square_wave(void); int main(void) { PINSEL1 = (1 << 19); while (1) { generate_triangle_wave(); delay(50000); } void delay(unsigned int count) { unsigned int i, j; for (i = 0; i < count; i++) { for (j = 0; j < 6000; j++); } } void generate_square_wave(void) { unsigned int high = 1023 << 6; unsigned int low = 0 << 6; for (int i = 0; i < 100; i++) { DACR = high; delay(10000); DACR = low; delay(10000); } } 6.TRIANGULAR #include <lpc214x.h> void delay(unsigned int count); void generate_triangle_wave(void); </pre>	<pre> int main(void) { PINSEL1 = (1 << 19); while (1) { generate_triangle_wave(); delay(50000); } void delay(unsigned int count) { unsigned int i, j; for (i = 0; i < count; i++) { for (j = 0; j < 6000; j++); } } void generate_triangle_wave(void) { unsigned int i; for (i = 0; i < 1023; i++) { DACR = (i << 6); delay(100); } for (i = 1023; i > 0; i--) { DACR = (i << 6); delay(100); } } } </pre>
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