

YL-LPC2292 “uCdragon” Development Board

Microcontroller: NXP LPC2292

256KB on-chip FLASH [0x0000 0000...0x0003 FFFF]

16KB on-chip SRAM [0x4000 0000...0x4000 3FFF]

Peripheral registers at top of address space

VPB Peripherals [0xE000 0000...0xEFFF FFFF]

AHB Peripherals [0xF000 0000...0xFFFF FFFF]

(Each peripheral has a 16KB address space within these ranges.)

2MB external flash EEPROM

Addresses [0x8000 0000 ... 0x801F FFFF], selected by /CS0

512K external RAM

Addresses [0x8100 0000-0x8103 FFFF], selected by /CS1

Other external address ranges:

LCD,NandFlash,USB: [0x8200 0000 ... 0x82FF FFFF] selected by /CS2

Ethernet,CF card,”User”: [0x8300 0000 ... 0x83FF FFFF] selected by /CS3

8 push buttons:

Button:	S2	S3	S4	S5	S6	S7	S8	S9
Port:	P2-16	P2-17	P2-18	P2-19	P2-20	P2-21	P2-22	P0-30/EINT3/KEY

8 LEDs

LED	D1	D2	D3	D4	D5	D6	D7	D8
Port	P0-2/SCL	P0-4	P0-5	P0-6	P2-28	P2-29	P2-30	P2-31

LCD (128x64, bit-mapped)

nGCS_LCD = LCD_EN (nGCS_LCD = /CS2 low and A7-A6-A5 = 011)

A1 = RS

A2 = R/W*

A3 = CS1 (controller of left half of LCD)

A4 = CS2 (controller of right half of LCD)

D0-D7 = DB0-DB7

BUF_nRESET = RESET*

P1-23 = EL_EN (backlight control)

PWM buzzer: Connected to port P0-21/PWM-5

Port RxD1/PWM6 drives test points TP1 and TP2

Thumb wheel potentiometer input to ADC

USB

2 x CAN

2 x RS232