Pins_VL-DiscoveryBoard MB1008

CN1 pin	Pin (chip)	Pin Arduino	Pin name	Type	Main function / Alternate function
1	1		NRST	I/O	Reset
2	2	0	OSCIN/PA1	I/O	Port A1
3	3	1	OSCOUT/PA2	I/O	Port A2
4	4		GND	S	Digital ground
5	4		GND	S	Digital ground
6	5		VCAP	S	1.8 V regulator capacitor
NC	6		VDD	S	Digital power supply
7	7	2	PA3	I/O	Port A3 Timer 2 - channel 3 / SPI master slave
8	8	3	PF4	I/O	Port F4

CN2 pin	Pin (chip)	Pin Arduino	Pin name	Type	Main function / Alternate function
1	17	12	PE5	I/O	Port E5 SPI master slave
2	18	13	PC1	I/O	Port C1 Timer 1 - channel 1 / UART2 synchronous clock
3	19	14	PC2	I/O	Port C2 Timer 1 - channel 2
4	20	15	PC3	I/O	Port C3 Timer 1 - channel 3
5	21	16	PC4	I/O	Port C4 Timer 1 - channel 4
6	22	17	PC5	I/O	Port C5 SPI clock
7	23	18	PC6	I/O	Port C6 SPI master out / slave in
8	24	19	PC7	I/O	Port C7 SPI master in / slave out

CN3 pin	Pin (chip)	Pin Arduino	Pin name	Type	Main function / Alternate function
1	9	4	PB7/B1	IO	Port B7 BUTTON
2	10	5	PB6	IO	Port B6
3	11	6	PB5	I/O	Port B5 I2C data
4	12	7	PB4	I/O	Port B4 I2C clock
5	13	8	PB3	I/O	Port B3 Analog input 3 / Timer 1 external trigger
6	14	9	PB2	I/O	Port B2 Analog input 2 / Timer 1 inverted channel 3
7	15	10	PB1	I/O	Port B1 Analog input 1 / Timer 1 inverted channel 2
8	16	11	PB0	I/O	Port B0 Analog input 0 / Timer 1 inverted channel 1

CN4 pin	Pin (chip)	Pin Arduino	Pin name	Type	Main function / Alternate function
1	25	20	PD0/LD1	I/O	Port D0 Timer 1 - break input / conf. clock output LED_BUILTIN
2	26	21	PD1/SWIM	I/O	Port D1 SWIM data interface
3	27	22	PD2	I/O	Port D2 Timer 2 - channel 3
4	28	23	PD3	I/O	Port D3 Timer 2 - channel 2 / ADC external trigger
5	29	24	PD4	I/O	Port D4 Timer 2 - channel 1 / BEEP output
6	30	25	PD5	I/O	Port D5 UART1 data transmit
7	31	26	PD6	I/O	Port D6 UART1 data receive
8	32	27	PD7	I/O	Port D7 Top level interrupt / Timer 1 - channel 4