ATTiny AVR 0-Series & 1-Series Microcontrollers

GPIO manipulation

PINx_bm (bitmap of pin x)

Port Direction:

PORTn.DIR

PORTA.DIR = 0b00010110 (set pins PA1, PA2 and PA4 as outputs, the rest as inputs)

PORTn.DIRSET

PORTA.DIRSET & PIN0_bm (change pin PA0 to output without modifying others)

PORTn.DIRCLR

PORTB.DIRCLR & PIN6_bm (change PB6 to input without modifying others)

PORTn.DIRTGL

PORTA.DIRTGL & PIN7_bm (toggle PA7 from input-to-output or output-to-input)

Port Control:

PORTn.PINxCTRL

INVEN				Pullup	ISC	ISC	ISC
7	6	5	4	3	2	1	0

Port Output:

PORTn.OUT

PORTn.OUTSET

PORTn.OUTCLR

PORTn.OUTTGL

Port Input:

PORTn.IN

PORTA.IN & PIN5_bm (true if PA5 is high)

~PORTB.IN & PIN0_bm (true if PB0 is low)

- TB3229 - Getting Started with GPIO
- TB3209 - Getting Started with ADC
- TB3210 - Getting Started with DAC
- TB3211 - Getting Started with AC
- TB3212 - Getting Started with TCD
- TB3213 - Getting Started with RTC
- TB3214 - Getting Started with TCB
- TB3215 - Getting Started with SPI
- TB3216 - Getting Started with USART
- TB3217 - Getting Started with TCA
- TB3218 - Getting started with CCL
- AN3007 - Getting Started with FreeRTOS on megaAVR 0-series
- AN2451 - Getting Started with Core Independent Peripherals on AVR Microcontrollers
- AVR1000: Getting Started with Writing C-Code for XMEGA
- AVRAPPS-1544:Getting Started with Events on the tinyAVR 1-series