Working with Documents



Exercise

Use documentation (data sheet / reference manual) to answer the following questions using a STM32F429 LQFP144

What are the pin numbers (0-144) for GPIO Port A.3 and E.1?

What is the address of the register GPIOA_OTYPER?



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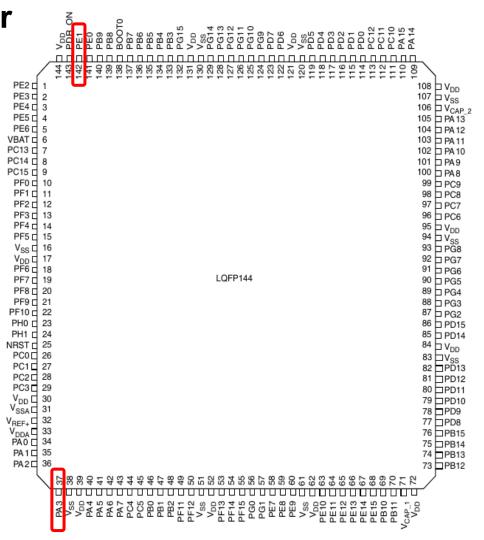
What is the pin number for GPIO Port A.3?

Port A.3: Pin 37

Port E.1: Pin 142

Solution:

- Datasheet
 - page 19
 - page 46





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What is the address of the register GPIOA_OTYPER?

Base Adress GPIOA
Offset GPIOx TYPER

0x4002 0000 0x0000 0004

Register adress

0x4002 0004

Solution

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- Reference manual
 - page 65
 - Page 279

Boundary address	Peripheral
0x4002 2800 - 0x4002 2BFF	GPIOK
0x4002 2400 - 0x4002 27FF	GPIOJ
0x4002 2000 - 0x4002 23FF	GPIOI
0x4002 1C00 - 0x4002 1FFF	GPIOH
0x4002 1800 - 0x4002 1BFF	GPIOG
0x4002 1400 - 0x4002 17FF	GPIOF
0x4002 1000 - 0x4002 13FF	GPIOE
0x4002 0C00 - 0x4002 0FFF	GPIOD
0x4002 0800 - 0x4002 0BFF	GPIOC
0x4002 0400 - 0x4002 07FF	GPIOB
0x4002 0000 - 0x4002 03FF	GPIOA