



Hello, and welcome to the STM32U5 Series presentation. This presentation provides information about the various product references available in the STM32U5 series.

## STM32U5: Product Lines

- The STM32U5 series is divided into 3 products lines
- Product lines are differentiated by key features:
  - USB, USB & TFT Interface, or USB & MIPI-DSI
  - Each product line has an option to include or not include cryptographic features
- Product part numbers are differentiated by:
  - Memory size (Flash, SRAM, DCACHE, ICACHE)
  - GPIO/LPGIO numbers
  - Digital or Graphics Features supported



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- Memory size of Flash, SRAM, DCACHE and ICACHE
- Number of GPIO supported, and
- Digital or Graphics Features supported

# STM32U5: Features per device

Product Line	Flash	SRAM	Common	Digital								Analog				Graphic									
				USART	UART	I2C	SPI	QSPI	FSMC & 16bit	USB FS	USB HS	SAI	SDMMC	ADC	DAC	OPAMP	COMP	DMA2D	GFXMMU	GPU2D	LTDC	DSI	HSPI	GFXTIMER	JPEG
STM32U535/545	Up to 512K dual bank	274 KB	Cortex-M33 160 MHz FPU, MPU, TrustZone, ETM, AES (256-bit), SHA-1, SHA-256, TRNG, PKA, MDF, ADF, CAN FD, 19 timers	4	1	4	3	1		1			1	1	1	1									
STM32U575/585	Up to 2M dual bank	768 KB		5	1	4	3	2	1	1		2	2	2	2	2	2	1							
STM32U59x/5Ax	Up to 4M dual bank	2.5 MB		6	1	6	3	2	1		1	2	2	3	2	2	2	1	1	1	1	1	1		
STM32U5Fx/5Gx	Up to 4M dual bank	3 MB		6	1	6	3	2	1		1	2	2	3	2	2	2	1	1	1	1	1	1	1	1

 feature does not exist for this STM32U5 product



This table shows an overview of the products in this series. The STM32U535/545 products offer the best Ultra Low Power features with reduced memories and peripheral set. The STM32U575/585 products offer Ultra Low Power features with enhanced memories and peripheral set. The STM32U59x/5Ax/5Fx/5Gx products offer a full-featured peripheral set including USB High Speed with integrated PHY, two 14-bit ADCs and one 12-bit ADC, graphic peripherals and enhanced memory sizes.

## STM32U5: Packages

Packages		STM32U5 series			
		STM32U535/545	STM32U575/585	STM32U59x/5Ax	STM32U5Fx/5Gx
LQFP	48	X	X	-	-
	48 SMPS	X	X	-	-
	64	X	X	X	-
	64 SMPS	X	X	X	-
	100	X	X	X	X
	100 DSI SMPS	-	-	-	X
	100 SMPS	X	X	X	X
	144	-	X	X	-
	144 DSI SMPS	-	-	-	X
	144 SMPS	-	X	X	-
UFQFN	48	X	X	-	-
	48 SMPS	X	X	-	-
WLCSP	56	X	-	-	-
	56 SMPS	X	-	-	-
	72	X	-	-	-
	72 SMPS	X	-	-	-
	90 SMPS	-	X	-	-
	150 SMPS	-	-	X	-
	150 DSI SMPS	-	-	X	-
	208 DSI SMPS	-	-	X	X
UFBGA	64	X	-	-	-
	64 SMPS	X	-	-	-
	100	X	-	-	-
	100 SMPS	X	-	-	-
	132	-	X	X	-
	132 SMPS	-	X	X	-
	144 DSI SMPS	-	-	-	X
	169	-	X	-	-
169 SMPS	-	X	-	-	
TFBGA	169	-	-	X	-
	169 SMPS	-	-	X	-
	216 DSI SMPS	-	-	X	X

X: package exists for this STM32U5  
 -: package does not exist for this STM32U5



In the following table you will find different packages available for each product of the STM32U5 Series. Refer to the product datasheet for availability of peripherals according to package size.

# Thank you

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