

Meaning of colors

Incompatible with example codes

Compatible with example codes

Compatible by adding external LEDs, buttons

Additional part that can be bought domestically/abroad is required

Types of accessory devices

OLED display - SSD1306

Temperature sensor - LM75

Humidity sensor - HH8120

Light sensor - AFD59300

NTC resistor - 10 kΩ

Motor controller IC - BD621xx

DC motor - FT0458

Possible collection 1:

[32F469IDISCOVERY](#)

[5 buttons](#)

[OLED display](#)

[Light sensor](#)

[NTC resistor](#)

[Humidity sensor](#)

[Temperature sensor](#)

[DC motor](#)

[Motor controller \(replacement\)](#)

[5V Power supply](#)

[Power supply connector \(recommended for motor controller\)](#)

Possible collection 2:

[NUCLEO-F446ZE](#)

[5 buttons](#)

[OLED display](#)

[Light sensor](#)

[NTC resistor](#)

[Humidity sensor](#)

[Temperature sensor](#)

[DC motor](#)

[Motor controller \(replacement\)](#)

[5V Power supply](#)

[Power supply connector \(recommended for motor controller\)](#)

[External SD card socket with SDIO interface](#)

Chapter Nr.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
NUCLEO-F3098R																												
NUCLEO-F3098K																												
NUCLEO-F3098E																												
NUCLEO-F3032E																												
NUCLEO-F3348R																												
NUCLEO-F9018R																												
NUCLEO-F4108E																												
NUCLEO-F4118R																												
NUCLEO-F4122G																												
NUCLEO-F4132H																												
NUCLEO-F4292I																												
NUCLEO-F4320I																												
NUCLEO-F4468E																												
NUCLEO-F4462E																												
NUCLEO-F7222E																												
NUCLEO-F7462G																												
NUCLEO-F7562G																												
NUCLEO-F7672I																												
32F3348DISCOVERY																												
32F4112DISCOVERY																												
32F4122DISCOVERY																												
32F413HDISCOVERY																												
32F4292IDISCOVERY																												
32F469IDISCOVERY																												
32F729DISCOVERY																												
32F769DISCOVERY																												
STM32F3DISCOVERY																												
STM32F4DISCOVERY																												
STM32F758-DK																												
Required additional devices										Light sensor	OLED display					OLED display, Light sensor, Temperature sensor, Humidity sensor	OLED display, NTC resistor			OLED display	Motor controller		Motor controller, OLED display		OLED display	OLED display, NTC, Motor controller		
Reason of incompatibility					Not enough LEDs	Not enough LEDs	Not enough LEDs or buttons	Not enough LEDs	Not enough LEDs, buttons, switches	Not enough LEDs, buttons, or no USB OTG						Not enough LEDs				Not enough buttons	Not enough buttons, motor controller			Not enough buttons, motor controller		Not enough LEDs	No SD card or few LEDs	No SD card or few LEDs
Recommendation					Use external LEDs	Use external LEDs	Use external LEDs and buttons	Use external LEDs	Use external LEDs and buttons							Use external LEDs				Use external buttons	Use external buttons				Use external LEDs	Use external SD card socket with SDIO interface	Use external LEDs, SD card socket with SDIO interface	

Note: octopart.com helps you to list the distributor companies where the accessories are available.