



LEDs and buttons on STM32 MPU boards



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STMicroelectronics

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- [STM32MP157C-EV1 - hardware description](#) for the Evaluation boards
- [STM32MP157X-DKX - hardware description](#) for the Discovery kits.



2 Description

LED color	Button label	Purpose
-	WAKE UP	This button allows the platform to be woken from any low-power mode ^[1]
Green (*)	USER 1 (*)	<p>This can be used at boot time as a button, by U-Boot, to enter USB programming mode with STM32CubeProgrammer. This avoids manipulation of the boot pins when a valid U-Boot image is already present in the board.</p> <p>It can be used at runtime as:</p> <ul style="list-style-type: none"> • a LED or a button for Linux examples • a button for STM32Cube examples
Red (*)	USER 2 (*)	<p>This can be used at boot time as a button, by U-Boot, to enter Android Fastboot mode.</p> <p>It is also used as a LED to show Cortex-A boot information^[2], then not used by Linux nor STM32Cube at runtime.</p>
Template : Blue	-	Linux heartbeat LED , which blinks as long as the Linux ^[3] is alive ^[2] on the Cortex-A
Orange	-	STM32Cube ^[4] examples verdict LED .

Warning

(*) Both a LED and a button are connected to the same GPIO, with inverted logic for the LED control (so the LED is switched on when the GPIO output is set low).



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