



STM32MP15 peripherals overview



Contents

1. STM32MP15 peripherals overview	9
2. ADC internal peripheral	4
3. BKPSRAM internal memory	4
4. BSEC internal peripheral	4
5. CEC internal peripheral	4
6. CRC internal peripheral	4
7. CRYP internal peripheral	4
8. Category:Getting started with STM32MP1 boards	4
9. DAC internal peripheral	4
10. DBGMCU internal peripheral	4
11. DCMI internal peripheral	5
12. DDRCTRL and DDRPHYC internal peripherals	5
13. DFSDM internal peripheral	5
14. DMA internal peripheral	5
15. DMAMUX internal peripheral	5
16. DSI internal peripheral	5
17. DTS internal peripheral	5
18. ETH internal peripheral	5
19. ETZPC internal peripheral	5
20. EXTI internal peripheral	5
21. FDCAN internal peripheral	6
22. FMC internal peripheral	6
23. GIC internal peripheral	6
24. GPIO internal peripheral	6
25. GPU internal peripheral	6
26. Getting started with STM32 MPU devices	6
27. HASH internal peripheral	6
28. HDP internal peripheral	6
29. HSEM internal peripheral	6
30. How to assign an internal peripheral to a runtime context	6
31. I2C internal peripheral	6
32. IPCC internal peripheral	7
33. IWDG internal peripheral	7
34. LPTIM internal peripheral	7
35. LTDC internal peripheral	7
36. MCU SRAM internal memory	7
37. MDMA internal peripheral	7
38. NVIC internal peripheral	7
39. OP-TEE overview	7
40. OTG internal peripheral	7
41. PWR internal peripheral	7
42. Power overview	8
43. QUADSPI internal peripheral	8



44. RCC internal peripheral	8
45. RETRAM internal memory	8
46. RNG internal peripheral	8
47. RTC internal peripheral	8
48. SAI internal peripheral	8
49. SDMMC internal peripheral	8
50. SPDIFRX internal peripheral	8
51. SPI internal peripheral	8
52. STGEN internal peripheral	8
53. STM internal peripheral	9
54. STM32CubeMP1 architecture	9
55. STM32CubeMX	9
56. STM32MP15 Linux kernel overview	9
57. STM32MP15 resources	9
58. STM32MPU Embedded Software architecture overview	9
59. SYSCFG internal peripheral	9
60. SYSRAM internal memory	9
61. TAMP internal peripheral	9
62. TIM internal peripheral	10
63. TZC internal peripheral	10
64. USART internal peripheral	10
65. USBH internal peripheral	10
66. USBPHYC internal peripheral	10
67. VREFBUF internal peripheral	10
68. WWDG internal peripheral	10



[unchecked revision]

Revision as of 15:25, 13 February 2019 ([view source](#))Gerald Baeza ([talk](#) | [contribs](#))[m](#)[Older edit](#)

[quality revision]

Revision as of 15:26, 13 February 2019 ([view source](#))Gerald Baeza ([talk](#) | [contribs](#))[m](#)[Newer edit](#)

Stable: 16.11.2021 - 14:47 / Revision: 16.11.2021 - 14:47

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer

Stable: 27.05.2021 - 13:01 / Revision: 18.05.2021 - 20:27

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer

Stable: 24.09.2019 - 14:06 / Revision: 24.09.2019 - 07:57

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer

Stable: 21.01.2020 - 15:27 / Revision: 21.01.2020 - 15:26

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer

Stable: 12.02.2020 - 16:39 / Revision: 12.02.2020 - 16:37

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer

Stable: 12.02.2020 - 16:40 / Revision: 12.02.2020 - 16:37

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer

Stable: 17.06.2020 - 15:26 / Revision: 16.01.2020 - 09:30

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer

Stable: 12.02.2020 - 16:42 / Revision: 12.02.2020 - 16:41

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer

Stable: 25.09.2020 - 09:43 / Revision: 25.09.2020 - 09:38

You do not have permission to read this page, for the following reason:



The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer

Stable: 12.02.2020 - 16:42 / Revision: 12.02.2020 - 16:41

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer

Stable: 02.06.2021 - 07:02 / Revision: 23.06.2021 - 15:20

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer

Stable: 12.02.2020 - 16:42 / Revision: 12.02.2020 - 16:41

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer

Stable: 13.10.2020 - 08:29 / Revision: 13.10.2020 - 08:29

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer

Stable: 04.02.2020 - 15:42 / Revision: 04.02.2020 - 15:34

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer

Stable: 05.11.2021 - 17:10 / Revision: 05.11.2021 - 17:09

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer

Stable: 04.02.2020 - 16:08 / Revision: 04.02.2020 - 16:04

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer

Stable: 04.02.2020 - 16:08 / Revision: 04.02.2020 - 16:00

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer

Stable: 31.07.2020 - 14:57 / Revision: 31.07.2020 - 14:56

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer

Stable: 26.03.2021 - 13:10 / Revision: 18.03.2021 - 14:45

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer

Stable: 26.09.2019 - 13:40 / Revision: 26.09.2019 - 13:39



Stable: 26.03.2021 - 13:17 / Revision: 26.03.2021 - 13:17

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer

Stable: 09.06.2021 - 14:48 / Revision: 09.06.2021 - 14:47

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer

Stable: 26.03.2021 - 13:17 / Revision: 18.03.2021 - 14:47

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer

Stable: 12.08.2021 - 15:30 / Revision: 12.08.2021 - 15:30

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer

Stable: 24.11.2020 - 08:50 / Revision: 24.11.2020 - 08:35

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer

Stable: 10.11.2020 - 11:22 / Revision: 10.11.2020 - 11:20

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer

Stable: 12.02.2020 - 16:46 / Revision: 12.02.2020 - 16:44

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer

Stable: 07.09.2021 - 09:41 / Revision: 12.08.2021 - 15:35

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer

Stable: 04.02.2020 - 15:58 / Revision: 04.02.2020 - 15:47

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer

Stable: 08.03.2021 - 16:43 / Revision: 16.02.2021 - 17:11

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer

Stable: 25.09.2020 - 09:43 / Revision: 25.09.2020 - 09:38

You do not have permission to read this page, for the following reason:



The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer
Stable: 22.01.2020 - 16:10 / Revision: 22.01.2020 - 10:51

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer
Stable: 25.09.2020 - 09:42 / Revision: 25.09.2020 - 09:37

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer
Stable: 30.03.2021 - 13:25 / Revision: 29.03.2021 - 09:46

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer
Stable: 07.10.2019 - 08:54 / Revision: 07.10.2019 - 08:53

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer
Stable: 04.02.2020 - 15:59 / Revision: 04.02.2020 - 15:48

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer
Stable: 13.10.2020 - 08:31 / Revision: 13.10.2020 - 08:31

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer
Stable: 25.03.2021 - 13:50 / Revision: 18.03.2021 - 17:29

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer
Stable: 13.05.2020 - 08:56 / Revision: 13.05.2020 - 08:54

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer
Stable: 27.10.2021 - 12:33 / Revision: 27.10.2021 - 12:02

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer
Stable: 25.09.2020 - 09:16 / Revision: 25.09.2020 - 09:15

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer
Stable: 01.12.2020 - 10:35 / Revision: 01.12.2020 - 09:20



You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer

Stable: 09.10.2019 - 12:44 / Revision: 16.09.2019 - 12:51

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer

Stable: 25.09.2020 - 09:10 / Revision: 25.09.2020 - 09:09

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer

Stable: 04.02.2020 - 15:59 / Revision: 04.02.2020 - 15:50

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer

Stable: 12.02.2020 - 16:50 / Revision: 12.02.2020 - 16:49

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer

Stable: 19.02.2020 - 10:01 / Revision: 04.02.2020 - 15:23

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer

Stable: 08.03.2021 - 16:04 / Revision: 08.03.2021 - 14:56

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer

Stable: 14.05.2020 - 07:13 / Revision: 14.05.2020 - 07:12

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer

Stable: 23.03.2021 - 16:53 / Revision: 23.03.2021 - 10:29

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer

Stable: 04.01.2021 - 10:24 / Revision: 21.12.2020 - 10:48

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer

Stable: 25.09.2020 - 09:42 / Revision: 25.09.2020 - 09:36

You do not have permission to read this page, for the following reason:



The action "Read pages" for the draft version of this page is only available for the groups [ST_editors](#), [ST_readers](#), [Selected_editors](#), [sysop](#), [reviewer](#)
Stable: 04.11.2021 - 17:53 / Revision: 04.11.2021 - 17:52

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups [ST_editors](#), [ST_readers](#), [Selected_editors](#), [sysop](#), [reviewer](#)
Stable: 31.03.2021 - 11:58 / Revision: 23.03.2021 - 14:07

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups [ST_editors](#), [ST_readers](#), [Selected_editors](#), [sysop](#), [reviewer](#)
Stable: 23.09.2020 - 13:22 / Revision: 12.06.2020 - 13:25

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups [ST_editors](#), [ST_readers](#), [Selected_editors](#), [sysop](#), [reviewer](#)
Stable: 05.11.2021 - 08:48 / Revision: 21.10.2021 - 09:59

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups [ST_editors](#), [ST_readers](#), [Selected_editors](#), [sysop](#), [reviewer](#)
Stable: 02.08.2021 - 07:18 / Revision: 02.08.2021 - 07:17

Revision as of 15:25, 13 February 2019 (view source)
 Gerald Baeza ([talk](#) | [contribs](#))

Older edit

Revision as of 15:26, 13 February 2019 (view source)
 Gerald Baeza ([talk](#) | [contribs](#))

Newer edit

Stable: 17.11.2021 - 16:41 / Revision: 17.11.2021 - 10:47

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups [ST_editors](#), [ST_readers](#), [Selected_editors](#), [sysop](#), [reviewer](#)
Stable: 26.03.2021 - 11:32 / Revision: 12.03.2021 - 11:07

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups [ST_editors](#), [ST_readers](#), [Selected_editors](#), [sysop](#), [reviewer](#)
Stable: 15.09.2021 - 06:58 / Revision: 15.09.2021 - 06:52

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups [ST_editors](#), [ST_readers](#), [Selected_editors](#), [sysop](#), [reviewer](#)
Stable: 25.09.2020 - 09:45 / Revision: 25.09.2020 - 09:44

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups [ST_editors](#), [ST_readers](#), [Selected_editors](#), [sysop](#), [reviewer](#)
Stable: 15.09.2021 - 06:37 / Revision: 15.09.2021 - 06:35

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups [ST_editors](#), [ST_readers](#), [Selected_editors](#), [sysop](#), [reviewer](#)
Stable: 30.03.2021 - 13:21 / Revision: 29.03.2021 - 09:46



Stable: 04.02.2020 - 15:40 / Revision: 04.02.2020 - 15:30

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer

Stable: 04.02.2020 - 15:40 / Revision: 04.02.2020 - 15:30

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer

Stable: 25.10.2021 - 09:56 / Revision: 25.10.2021 - 09:38

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer

Stable: 25.09.2020 - 09:43 / Revision: 25.09.2020 - 09:37

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer

Stable: 27.10.2021 - 13:06 / Revision: 27.10.2021 - 12:42

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer

Stable: 25.09.2020 - 09:43 / Revision: 25.09.2020 - 09:37

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer

Stable: 04.02.2020 - 15:42 / Revision: 04.02.2020 - 15:33

You do not have permission to read this page, for the following reason:

The action "Read pages" for the draft version of this page is only available for the groups ST_editors, ST_readers, Selected_editors, sysop, reviewer