

1. Description

1.1. Project

Project Name	IR4DetacherFirmware
Board Name	custom
Generated with:	STM32CubeMX 6.14.1
Date	04/24/2025

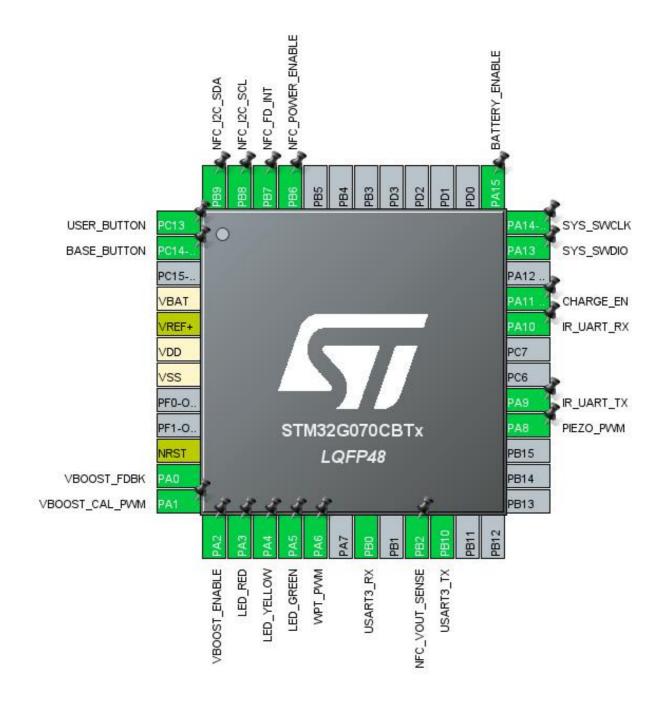
1.2. MCU

MCU Series	STM32G0
MCU Line	STM32G0x0 Value line
MCU name	STM32G070CBTx
MCU Package	LQFP48
MCU Pin number	48

1.3. Core(s) information

Core(s)	ARM Cortex-M0+

2. Pinout Configuration

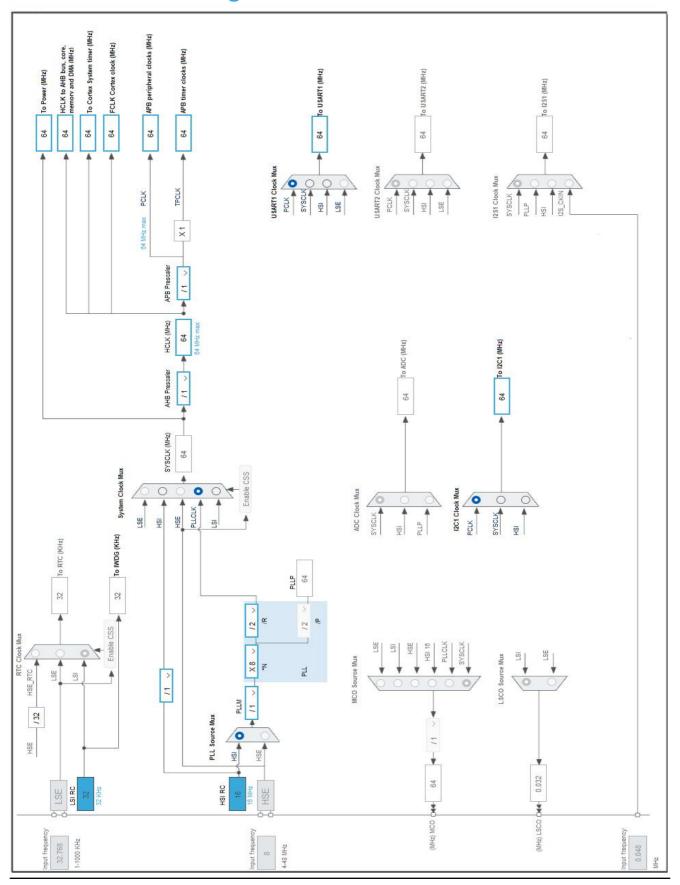


3. Pins Configuration

D: N	B: N	Б: Т	A.1.	
Pin Number	Pin Name	Pin Type	Alternate	Label
LQFP48	(function after		Function(s)	
	reset)			
1	PC13 *	I/O	GPIO_Input	USER_BUTTON
2	PC14-OSC32_IN (PC14) *	I/O	GPIO_Input	BASE_BUTTON
4	VBAT	Power		
5	VREF+	MonolO		
6	VDD	Power		
7	VSS	Power		
10	NRST	Reset		
11	PA0	I/O	ADC1_IN0	VBOOST_FDBK
12	PA1	I/O	TIM15_CH1N	VBOOST_CAL_PWM
13	PA2 *	I/O	GPIO_Output	VBOOST_ENABLE
14	PA3 *	I/O	GPIO_Output	LED_RED
15	PA4 *	I/O	GPIO_Output	LED_YELLOW
16	PA5 *	I/O	GPIO_Output	LED_GREEN
17	PA6	I/O	TIM3_CH1	WPT_PWM
19	PB0	I/O	USART3_RX	
21	PB2	I/O	ADC1_IN10	NFC_VOUT_SENSE
22	PB10	I/O	USART3_TX	
28	PA8	I/O	TIM1_CH1	PIEZO_PWM
29	PA9	I/O	USART1_TX	IR_UART_TX
32	PA10	I/O	USART1_RX	IR_UART_RX
33	PA11 [PA9] *	I/O	GPIO_Output	CHARGE_EN
35	PA13	I/O	SYS_SWDIO	
36	PA14-BOOT0	I/O	SYS_SWCLK	
37	PA15 *	I/O	GPIO_Output	BATTERY_ENABLE
45	PB6 *	I/O	GPIO_Output	NFC_POWER_ENABLE
46	PB7	I/O	GPIO_EXTI7	NFC_FD_INT
47	PB8	I/O	I2C1_SCL	NFC_I2C_SCL
48	PB9	I/O	I2C1_SDA	NFC_I2C_SDA

^{*} The pin is affected with an I/O function

4. Clock Tree Configuration



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1. Power Consumption Calculator report

1.1. Microcontroller Selection

Series	STM32G0
Line	STM32G0x0 Value line
MCU	STM32G070CBTx
Datasheet	DS12766_Rev0

1.2. Parameter Selection

Temperature	25
Vdd	3.0

1.3. Battery Selection

Battery	Li-SOCL2(AAA700)
Capacity	700.0 mAh
Self Discharge	0.08 %/month
Nominal Voltage	3.6 V
Max Cont Current	10.0 mA
Max Pulse Current	30.0 mA
Cells in series	1
Cells in parallel	1

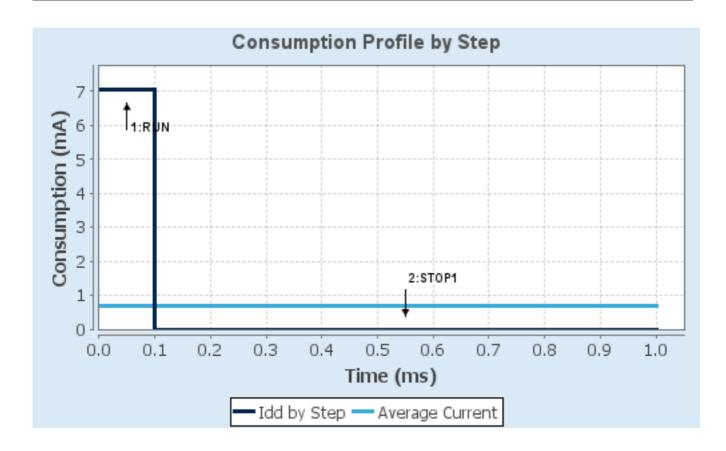
1.4. Sequence

Step	Step1	Step2
Mode	RUN	STOP1
Vdd	3.0	3.0
Voltage Source	Battery	Battery
Range	Range1-High	NoRange
Fetch Type	FLASH	Flash-PowerDown
CPU Frequency	64 MHz	16 MHz
Clock Configuration	HSI PLL	HSI
Clock Source Frequency	16 MHz	16 MHz
Peripherals		
Additional Cons.	0 mA	0 mA
Average Current	7.04 mA	3.74 µA
Duration	0.1 ms	0.9 ms
DMIPS	80.0	0.0
Та Мах	128.42	130
Category	In DS Table	In DS Table

1.5. Results

Sequence Time	1 ms	Average Current	707.37 μA
Battery Life	1 month, 10 days,	Average DMIPS	80.0 DMIPS
	18 hours		

1.6. Chart



2. Software Project

2.1. Project Settings

Name	Value
Project Name	IR4DetacherFirmware
Project Folder	C:\Users\jpieterick\Desktop\Projects\F1888IR4OneKeyDetacher\firmware\F18888
Toolchain / IDE	STM32CubeIDE
Firmware Package Name and Version	STM32Cube FW_G0 V1.6.2
Application Structure	Advanced
Generate Under Root	Yes
Do not generate the main()	No
Minimum Heap Size	0x200
Minimum Stack Size	0x400

2.2. Code Generation Settings

Name	Value
STM32Cube MCU packages and embedded software	Copy only the necessary library files
Generate peripheral initialization as a pair of '.c/.h' files	Yes
Backup previously generated files when re-generating	No
Keep User Code when re-generating	Yes
Delete previously generated files when not re-generated	Yes
Set all free pins as analog (to optimize the power	Yes
consumption)	
Enable Full Assert	No

2.3. Advanced Settings - Generated Function Calls

Rank	Function Name	Peripheral Instance Name
1	SystemClock_Config	RCC
2	MX_GPIO_Init	GPIO
3	MX_I2C1_Init	I2C1
4	MX_USART1_UART_Init	USART1
5	MX_TIM1_Init	TIM1
6	MX_TIM3_Init	TIM3
7	MX_ADC1_Init	ADC1
8	MX_IWDG_Init	IWDG
9	MX_TIM15_Init	TIM15
10	MX_USART3_UART_Init	USART3
11	MX_TIM6_Init	TIM6

IR4DetacherFirmware Project
Configuration Report

3. Peripherals and Middlewares Configuration

3.1. ADC1 mode: IN0 mode: IN10

3.1.1. Parameter Settings:

ADC_Settings:

Clock Prescaler Synchronous clock mode divided by 2

Resolution ADC 12-bit resolution

Data Alignment Right alignment

Sequencer set to fully configurable

Scan Conversion Mode Disabled
Continuous Conversion Mode Disabled
Discontinuous Conversion Mode Disabled
DMA Continuous Requests Disabled

End Of Conversion Selection End of single conversion

Overrun behaviour Overrun data preserved

Low Power Auto WaitDisabledAuto OffDisabledOversampling ModeDisabled

ADC_Regular_ConversionMode:

SamplingTime Common 1 1.5 Cycles
SamplingTime Common 2 1.5 Cycles

Number Of Conversion 1

External Trigger Conversion Source Regular Conversion launched by software

External Trigger Conversion Edge None

Trigger Frequency High frequency

Rank 1

Channel 0

Sampling Time Sampling time common 1

Analog Watchdog 1:

Enable Analog WatchDog1 Mode false

Analog Watchdog 2:

Enable Analog WatchDog2 Mode false

Analog Watchdog 3:

Enable Analog WatchDog3 Mode false

3.2. I2C1 I2C: I2C

3.2.1. Parameter Settings:

Timing configuration:

Custom Timing Disabled
I2C Speed Mode Standard Mode

I2C Speed Frequency (KHz)100Rise Time (ns)100Fall Time (ns)100Coefficient of Digital Filter0Analog FilterEnabled

Timing **0x10B17DB5** *

Slave Features:

Clock No Stretch Mode Disabled
General Call Address Detection Disabled
Primary Address Length selection 7-bit
Dual Address Acknowledged Disabled
Primary slave address 0

3.3. IWDG

mode: Activated

3.3.1. Parameter Settings:

Watchdog Clocking:

 IWDG counter clock prescaler
 4

 IWDG window value
 4095

 IWDG down-counter reload value
 4095

3.4. RCC

3.4.1. Parameter Settings:

System Parameters:

VDD voltage (V) 3.3
Instruction Cache Enabled
Prefetch Buffer Enabled
Data Cache Enabled

Flash Latency(WS) 2 WS (3 CPU cycle)

RCC Parameters:

HSI Calibration Value (64)
HSE Startup Timout Value (ms) 100
LSE Startup Timout Value (ms) 5000

Power Parameters:

Power Regulator Voltage Scale Power Regulator Voltage Scale 1

Peripherals Clock Configuration:

Generate the peripherals clock configuration TRUE

3.5. SYS

mode: Debug

Timebase Source: SysTick

mode: save power of non-active UCPD - deactive Dead Battery pull-up

3.6. TIM1

Clock Source : Internal Clock
Channel1: PWM Generation CH1

3.6.1. Parameter Settings:

Counter Settings:

Prescaler (PSC - 16 bits value) 640 *

Counter Mode Up

Counter Period (AutoReload Register - 16 bits value) 100 *

Internal Clock Division (CKD) No Division

Repetition Counter (RCR - 16 bits value) 0

auto-reload preload Disable

Trigger Output (TRGO) Parameters:

Master/Slave Mode (MSM bit) Disable (Trigger input effect not delayed)

Trigger Event Selection TRGO Reset (UG bit from TIMx_EGR)

Trigger Event Selection TRGO2 Reset (UG bit from TIMx_EGR)

Break And Dead Time management - BRK Configuration:

BRK State Disable
BRK Polarity High
BRK Filter (4 bits value) 0

BRK Sources Configuration

- Digital Input Disable

Break And Dead Time management - BRK2 Configuration:

BRK2 State Disable
BRK2 Polarity High
BRK2 Filter (4 bits value) 0

BRK2 Sources Configuration

- Digital Input Disable

Break And Dead Time management - Output Configuration:

Automatic Output State Disable
Off State Selection for Run Mode (OSSR) Disable
Off State Selection for Idle Mode (OSSI) Disable
Lock Configuration Off

Clear Input:

Clear Input Source Disable

PWM Generation Channel 1:

Mode PWM mode 1

Pulse (16 bits value)

Output compare preload

Fast Mode

CH Polarity

CH Idle State

A9 *

Enable

Disable

High

Reset

3.7. TIM3

Clock Source: Internal Clock
Channel1: PWM Generation CH1

3.7.1. Parameter Settings:

Counter Settings:

Prescaler (PSC - 16 bits value) 0

Counter Mode Up

Counter Period (AutoReload Register - 16 bits value) 65535

Internal Clock Division (CKD) No Division auto-reload preload Disable

Trigger Output (TRGO) Parameters:

Master/Slave Mode (MSM bit) Disable (Trigger input effect not delayed)

Trigger Event Selection TRGO Reset (UG bit from TIMx_EGR)

Clear Input:

Clear Input Source Disable

PWM Generation Channel 1:

Mode PWM mode 1

Pulse (16 bits value) 0

Output compare preload Enable
Fast Mode Disable
CH Polarity High

3.8. TIM6

mode: Activated

3.8.1. Parameter Settings:

Counter Settings:

Prescaler (PSC - 16 bits value) BLOCKING DELAY PRESCALER *

Counter Mode Up Counter Period (AutoReload Register - 16 bits value) $\, {f 0} \, {}^{\mbox{*}} \,$

auto-reload preload Enable *

Trigger Output (TRGO) Parameters:

Trigger Event Selection Reset (UG bit from TIMx_EGR)

3.9. TIM15

Channel1: PWM Generation CH1N

3.9.1. Parameter Settings:

Counter Settings:

Prescaler (PSC - 16 bits value) 0
Counter Mode Up
Counter Period (AutoReload Register - 16 bits value) 65535
Internal Clock Division (CKD) No Division

Repetition Counter (RCR - 8 bits value) 0
auto-reload preload Disable

Trigger Output (TRGO) Parameters:

Master/Slave Mode (MSM bit) Disable (Trigger input effect not delayed)

Trigger Event Selection Reset (UG bit from TIMx_EGR)

Break And Dead Time management - BRK Configuration:

BRK State Disable
BRK Polarity High
BRK Filter (4 bits value) 0

BRK Sources Configuration

- Digital Input Disable

Break And Dead Time management - Output Configuration:

Automatic Output State Disable
Off State Selection for Run Mode (OSSR) Disable
Off State Selection for Idle Mode (OSSI) Disable
Lock Configuration Off

PWM Generation Channel 1N:

Mode PWM mode 1

Pulse (16 bits value)0Output compare preloadEnableFast ModeDisableCHN PolarityHighCHN Idle StateReset

3.10. USART1

Mode: Asynchronous

3.10.1. Parameter Settings:

Basic Parameters:

Baud Rate **6553** *

Word Length 8 Bits (including Parity)

Parity None Stop Bits 1

Advanced Parameters:

Data Direction Receive and Transmit

Over Sampling 16 Samples
Single Sample Disable
ClockPrescaler 1
Fifo Mode Disable

Txfifo Threshold 1 eighth full configuration Rxfifo Threshold 1 eighth full configuration

Advanced Features:

Auto Baudrate Disable TX Pin Active Level Inversion Disable **RX Pin Active Level Inversion** Disable Disable **Data Inversion** TX and RX Pins Swapping Disable Overrun Enable DMA on RX Error Enable MSB First Disable

3.11. USART3

Mode: Asynchronous

3.11.1. Parameter Settings:

Basic Parameters:

Baud Rate 115200

Word Length 8 Bits (including Parity)

Parity None Stop Bits 1

Advanced Parameters:

Data Direction Receive and Transmit

Over Sampling 16 Samples
Single Sample Disable
ClockPrescaler 1

Advanced Features:

TX Pin Active Level Inversion Disable
RX Pin Active Level Inversion Disable
Data Inversion Disable
TX and RX Pins Swapping Disable
Overrun Enable
DMA on RX Error Enable
MSB First Disable

* User modified value

4. System Configuration

4.1. GPIO configuration

IP	Pin	Signal	GPIO mode	GPIO pull/up pull down	Max Speed	User Label
ADC1	PA0	ADC1_IN0	Analog mode	No pull-up and no pull-down	n/a	VBOOST_FDBK
	PB2	ADC1_IN10	Analog mode	No pull-up and no pull-down	n/a	NFC_VOUT_SENSE
I2C1	PB8	I2C1_SCL	Alternate Function Open Drain	No pull-up and no pull-down	Low	NFC_I2C_SCL
	PB9	I2C1_SDA	Alternate Function Open Drain	No pull-up and no pull-down	Low	NFC_I2C_SDA
SYS	PA13	SYS_SWDIO	n/a	n/a	n/a	
	PA14- BOOT0	SYS_SWCLK	n/a	n/a	n/a	
TIM1	PA8	TIM1_CH1	Alternate Function Push Pull	No pull-up and no pull-down	Low	PIEZO_PWM
TIM3	PA6	TIM3_CH1	Alternate Function Push Pull	No pull-up and no pull-down	Low	WPT_PWM
TIM15	PA1	TIM15_CH1N	Alternate Function Push Pull	No pull-up and no pull-down	Low	VBOOST_CAL_PWM
USART1	PA9	USART1_TX	Alternate Function Push Pull	No pull-up and no pull-down	Low	IR_UART_TX
	PA10	USART1_RX	Alternate Function Push Pull	No pull-up and no pull-down	Low	IR_UART_RX
USART3	PB0	USART3_RX	Alternate Function Push Pull	No pull-up and no pull-down	Low	
	PB10	USART3_TX	Alternate Function Push Pull	No pull-up and no pull-down	Low	
GPIO	PC13	GPIO_Input	Input mode	No pull-up and no pull-down	n/a	USER_BUTTON
	PC14- OSC32_IN (PC14)	GPIO_Input	Input mode	No pull-up and no pull-down	n/a	BASE_BUTTON
	PA2	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	VBOOST_ENABLE
	PA3	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	LED_RED
	PA4	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	LED_YELLOW
	PA5	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	LED_GREEN
	PA11 [PA9]	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	CHARGE_EN
	PA15	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	BATTERY_ENABLE
	PB6	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	NFC_POWER_ENABLE
	PB7	GPIO_EXTI7	External Interrupt Mode with Rising edge trigger detection	No pull-up and no pull-down	n/a	NFC_FD_INT

4.2. DMA configuration

nothing configured in DMA service

4.3. NVIC configuration

4.3.1. NVIC

Interrupt Table	Enable	Preenmption Priority	SubPriority
Non maskable interrupt	true	0	0
Hard fault interrupt	true	0	0
System service call via SWI instruction	true	0	0
Pendable request for system service	true	0	0
System tick timer	true	3	0
EXTI line 4 to 15 interrupts	true	0	0
ADC1 interrupt	true	0	0
TIM6 global interrupt	true	0	0
USART1 global interrupt / USART1 wake-up interrupt through EXTI line 25	true	1	0
Flash global interrupt	unused		
RCC global interrupt	unused		
TIM1 break, update, trigger and commutation interrupts	unused		
TIM1 capture compare interrupt	unused		
TIM3 global interrupt	unused		
TIM15 global interrupt	unused		
I2C1 event global interrupt / I2C1 wake-up interrupt through EXTI line 23	unused		
USART3 and USART4 interrupts		unused	

4.3.2. NVIC Code generation

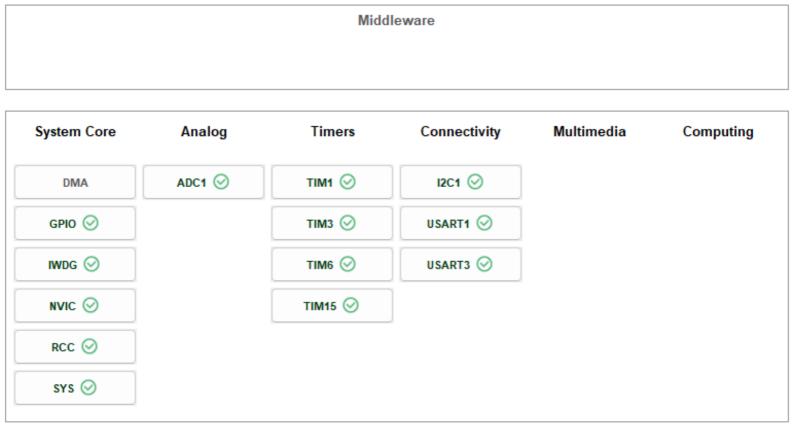
Enabled interrupt Table	Select for init	Generate IRQ	Call HAL handler
	sequence ordering	handler	
Non maskable interrupt	false	true	false
Hard fault interrupt	false	true	false
System service call via SWI instruction	false	true	false
Pendable request for system service	false	true	false
System tick timer	false	true	true
EXTI line 4 to 15 interrupts	false	true	true
ADC1 interrupt	false	true	true
TIM6 global interrupt	false	true	true
USART1 global interrupt / USART1 wake- up interrupt through EXTI line 25	false	true	true

* User modified value

5. System Views

5.1. Category view

5.1.1. Current



6. Docs & Resources

Type Link

IBIS models https://www.st.com/resource/en/ibis_model/stm32g0_ibis.zip

System View https://www.st.com/resource/en/svd/stm32g0-svd.zip

Description

Presentations https://www.st.com/resource/en/product_presentation/stm32-

stm8_embedded_software_solutions.pdf

Presentations https://www.st.com/resource/en/product_presentation/stm32_eval-

tools_portfolio.pdf

Presentations https://www.st.com/resource/en/product_presentation/stm32_stm8_functi

onal-safety-packages.pdf

Presentations https://www.st.com/resource/en/product_presentation/stm32g0_marketing

_pres.pdf

Presentations https://www.st.com/resource/en/product_presentation/stm32-usb-c-pd-

solutions-presentation.pdf

Presentations https://www.st.com/resource/en/product_presentation/stm32-

stm8_software_development_tools.pdf

Presentations https://www.st.com/resource/en/product_presentation/microcontrollers-

stm32-family-overview.pdf

Presentations https://www.st.com/resource/en/product_presentation/microcontrollers-

stm32-entry-level-graphics.pdf

Brochures https://www.st.com/resource/en/brochure/products-and-solutions-for-plcs-

and-smart-i-os.pdf

Flyers https://www.st.com/resource/en/flyer/flstm32g0.pdf

Flyers https://www.st.com/resource/en/flyer/flstm32nucleo.pdf

Flyers https://www.st.com/resource/en/flyer/flstm32trust.pdf

Flyers https://www.st.com/resource/en/flyer/fldpstpfc11120.pdf

Application Notes https://www.st.com/resource/en/application_note/an1709-emc-design-

guide-for-stm8-stm32-and-legacy-mcus-stmicroelectronics.pdf

Application Notes https://www.st.com/resource/en/application_note/an2606-stm32-

microcontroller-system-memory-boot-mode-stmicroelectronics.pdf

- Application Notes https://www.st.com/resource/en/application_note/an3126-audio-and-waveform-generation-using-the-dac-in-stm32-products-stmicroelectronics.pdf
- Application Notes https://www.st.com/resource/en/application_note/an3155-usart-protocol-used-in-the-stm32-bootloader-stmicroelectronics.pdf
- Application Notes https://www.st.com/resource/en/application_note/an3156-usb-dfu-protocol-used-in-the-stm32-bootloader-stmicroelectronics.pdf
- Application Notes https://www.st.com/resource/en/application_note/an4221-i2c-protocol-used-in-the-stm32-bootloader-stmicroelectronics.pdf
- Application Notes https://www.st.com/resource/en/application_note/an4286-spi-protocol-used-in-the-stm32-bootloader-stmicroelectronics.pdf
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- Application Notes https://www.st.com/resource/en/application_note/an4655-virtually-increasing-the-number-of-serial-communication-peripherals-in-stm32-applications-stmicroelectronics.pdf
- Application Notes https://www.st.com/resource/en/application_note/an4750-handling-of-soft-errors-in-stm32-applications-stmicroelectronics.pdf
- Application Notes https://www.st.com/resource/en/application_note/an4776-generalpurpose-timer-cookbook-for-stm32-microcontrollers-stmicroelectronics.pdf
- Application Notes https://www.st.com/resource/en/application_note/an4803-highspeed-si-simulations-using-ibis-and-boardlevel-simulations-using-hyperlynx-si-on-stm32-mcus-and-mpus-stmicroelectronics.pdf
- Application Notes https://www.st.com/resource/en/application_note/an4989-stm32-microcontroller-debug-toolbox-stmicroelectronics.pdf
- Application Notes https://www.st.com/resource/en/application_note/an5027-interfacing-pdm-digital-microphones-using-stm32-mcus-and-mpus-stmicroelectronics.pdf
- Application Notes https://www.st.com/resource/en/application_note/an5096-getting-started-with-stm32g0-series-hardware-development-stmicroelectronics.pdf
- Application Notes https://www.st.com/resource/en/application_note/an5110-stm32cube-firmware-examples-for-stm32g0-series-stmicroelectronics.pdf
- Application Notes https://www.st.com/resource/en/application_note/an5145-migration-of-applications-from-stm32f0-series-to-stm32g0-series--

- stmicroelectronics.pdf
- Application Notes https://www.st.com/resource/en/application_note/an4899-stm32-microcontroller-gpio-hardware-settings-and-lowpower-consumption-stmicroelectronics.pdf
- Application Notes https://www.st.com/resource/en/application_note/an5612-esd-protection-of-stm32-mcus-and-mpus-stmicroelectronics.pdf
- Application Notes https://www.st.com/resource/en/application_note/an4991-how-to-wake-up-an-stm32-microcontroller-from-lowpower-mode-with-the-usart-or-the-lpuart-stmicroelectronics.pdf
- Application Notes https://www.st.com/resource/en/application_note/an4838-introduction-to-memory-protection-unit-management-on-stm32-mcus-stmicroelectronics.pdf
- Application Notes https://www.st.com/resource/en/application_note/an5225-introduction-to-usb-typec-power-delivery-for-stm32-mcus-and-mpus-stmicroelectronics.pdf
- Application Notes https://www.st.com/resource/en/application_note/an4777-how-to-optimize-power-consumption-on-stm32-mcus-stmicroelectronics.pdf
- Application Notes https://www.st.com/resource/en/application_note/an4894-how-to-use-eeprom-emulation-on-stm32-mcus-stmicroelectronics.pdf
- Application Notes https://www.st.com/resource/en/application_note/an5537-how-to-use-adcoversampling-techniques-to-improve-signaltonoise-ratio-on-stm32-mcusstmicroelectronics.pdf
- Application Notes https://www.st.com/resource/en/application_note/an5036-guidelines-for-thermal-management-on-stm32-applications-stmicroelectronics.pdf
- Application Notes https://www.st.com/resource/en/application_note/an5405-how-to-use-fdcan-bootloader-protocol-on-stm32-mcus-stmicroelectronics.pdf
- Application Notes https://www.st.com/resource/en/application_note/an5690-how-to-use-vrefbuf-peripheral-on-stm32-mcus-and-mpus-stmicroelectronics.pdf
- Application Notes https://www.st.com/resource/en/application_note/an4230-introduction-to-random-number-generation-validation-using-the-nist-statistical-test-suite-for-stm32-mcus-and-mpus-stmicroelectronics.pdf
- Application Notes https://www.st.com/resource/en/application_note/an2548-introduction-to-dma-controller-for-stm32-mcus-stmicroelectronics.pdf

- Application Notes https://www.st.com/resource/en/application_note/an4013-introduction-to-timers-for-stm32-mcus-stmicroelectronics.pdf
- Application Notes https://www.st.com/resource/en/application_note/an4277-how-to-use-pwm-shutdown-for-motor-control-and-digital-power-conversion-on-stm32-mcus-stmicroelectronics.pdf
- Application Notes https://www.st.com/resource/en/application_note/an4635-how-tooptimize-lpuart-power-consumption-on-stm32-mcusstmicroelectronics.pdf
- Application Notes https://www.st.com/resource/en/application_note/an4759-introduction-to-using-the-hardware-realtime-clock-rtc-and-the-tamper-management-unit-tamp-with-stm32-mcus-stmicroelectronics.pdf
- Application Notes https://www.st.com/resource/en/application_note/an4908-getting-started-with-usart-automatic-baud-rater-detection-for-stm32-mcus-stmicroelectronics.pdf
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- Application Notes https://www.st.com/resource/en/application_note/an5348-introduction-to-fdcan-peripherals-for-stm32-mcus-stmicroelectronics.pdf
- Application Notes https://www.st.com/resource/en/application_note/an5969-migrating-between-stm32g0-and-stm32c0-mcus-stmicroelectronics.pdf
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