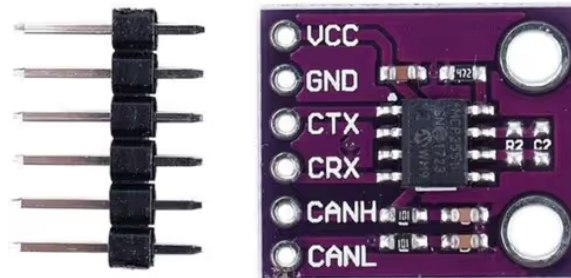


**LEARN ESP32**[UART #1 || Simple Tx Rx](#)[UART #2 || Control LED](#)[I2C #1 || Interface](#)[LCD1602](#)[I2C #2 || Read Write](#)[MPU6050](#)**LEARN AVR**[AVR #1 || LED Blinking](#)[AVR #2 || Input Button](#)[AVR #3 || UART Send Data](#)[AVR #4 || UART Recv Data](#)[AVR #5 || I2C Send Data](#)

# **CAN Protocol in STM32**

This tutorial will cover the Basic Can protocol in STM32. Here we will see how to communicate between two STM32 MCUs using the CAN protocol. Of course we would need 2 can transceivers (at least) to do that, and that's why I am using **MCP2551** can transceivers.



## **A Little info about the CAN Protocol**

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Ok

[AVR #6 || Interface PCF8574](#)

[AVR #7 || LCD1602 \(I2C\)](#)

[AVR #8 || Read EEPROM \(I2C\)](#)

## LEARN STM32

[Interface LCD1602 via I2C](#)

[Interface LCD1602](#)

[\(Parallel\)](#)

[Custom Chars in LCD1602](#)

[Interface AIP31068 LCD1602](#)

[Interface LCD20x4 \(I2C\)](#)

[Interface SSD1306 Oled](#)

[Interface SH1106 Oled](#)

[ST7920 GLCD \(Parallel\)](#)

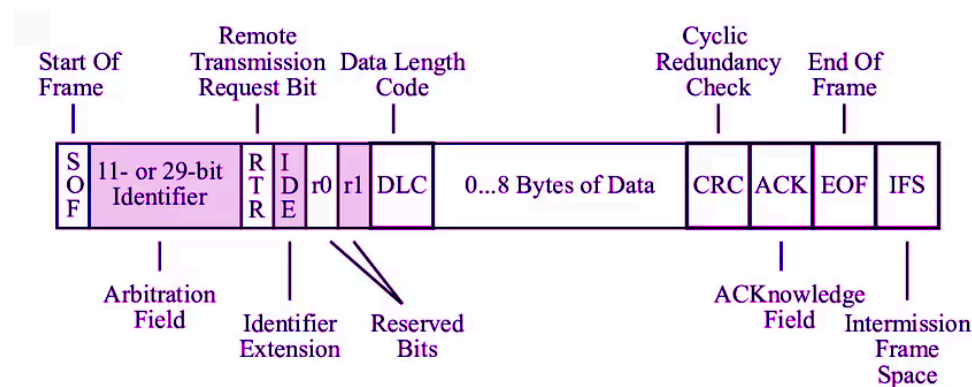
[Interface TFT Display](#)

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I am not going to explain every small detail here, instead we will just focus on some important things. For more details about the Protocol, you can google it.

**CAN (Controlled Area Network)** Protocol is a way of communication between different devices, but under certain rules. These rules must be followed when a message is transmitted over the CAN bus. Here we are going to see these rules.

Below is the image showing the Standard CAN Frame.



- Here, **Identifier** is the ID of the transmitting Device. It can be either **11 bits** (Standard ID) or **29 bits** (Extended ID).
- **RTR** (Remote Transmission Request) Specifies if the data is Remote frame or Data frame.

- **IDE** specifies if we are using **Standard ID** or **Extended ID**. [Privacy Policy](#).

[ST7735 TFT Display\\_\(SPI\)](#)[Interface Dot Matrix](#)[Display](#)[Cascade Dot Matrix](#)[Display](#)[Scroll strings on Dot](#)[Matrix](#)[Timer #1 || PWM Output](#)[Timer #2 || PWM Input](#)[Timer #4 || Input Capture](#)[Timer #5 || Slave Trigger](#)[Timer #6 || 3 Phase PWM](#)[Timer #7 || Reset Mode](#)[Timer #8 || 48 bit Counter](#)[Timer #9 || One Pulse  
Mode](#)[Timer #10 || Gated Mode](#)[Generate MicroSec Delay](#)[Interface DHT11 Sensor](#)

- **r** is the Reserved bit.
- **DLC** specifies the data length in Bytes.
- **Data Field** is where we send the actual data bytes. It can be upto 8 bytes in size.
- **CRC** is the checksum data byte.
- **ACK** is the acknowledgment bit.

In this Tutorial, we will see upto the **Data Field only**. The CRC and ACK will be handled by the HAL Library.

---



---

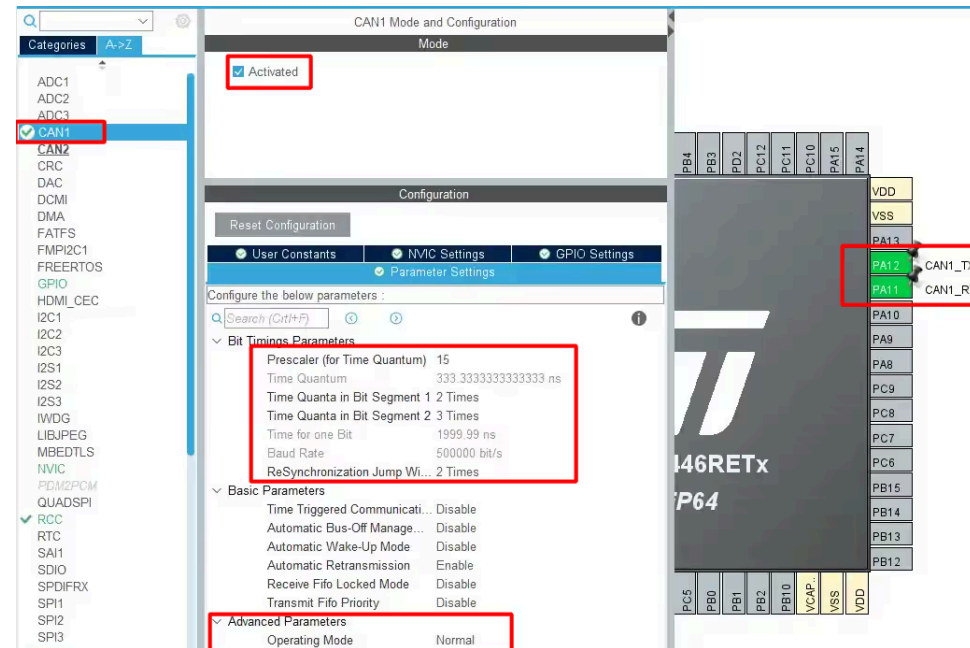
## Connection and Configuration

The CubeMX Configuration is as shown below.

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[Interface DHT22 Sensor](#)[Interface DS18B20 Sensor](#)[Multiple DS18B20](#)[Sensors](#)[Interface ADXL345 I2C](#)[Interface MPU6050 \(I2C\)](#)[Interface EEPROM \(I2C\)](#)[Interface Servo Motor](#)[Interface Steeper Motor](#)[Stepper Angle Control](#)[Interface BLDC Motor](#)[Interface Continuous](#)[Servo](#)[Control RPM of Cont Srvo](#)[How to use SPI Peripheral](#)[Interface SD Card via SPI](#)[Interface SD Card \(SDIO\)](#)[Internal RTC Real Time](#)[Clk](#)

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I am using CAN1 for this tutorial.

- Here the **BAUD RATE** is set to 500000 bps. You can try different different combinations for **Prescalar and Time Quanta** to achieve this.
- The Operating Mode is **NORMAL Mode**.
- Pins PA11 and PA12 are configured as **CAN\_RX** and **CAN\_TX**.

We also need to enable the pull up for the RX pin as shown below.

[Interface DS3231 RTC](#)

[Interface 4x4 Keypad](#)

[HCSR04 Ultrasonic](#)

[Sensor](#)

[UART Ring Buffer](#)

[Multiple UART Ring Buffer](#)

[UART DMA IDLE Line](#)

[Interface Joystick via ADC](#)

[ADC Multiplexer](#)

[74HC4051](#)

[FreeRTOS #1 || Intro](#)

[FreeRTOS #2 || Tasks](#)

[FreeRTOS #3 || Binary](#)

[Sem](#)

[FreeRTOS #4 || Count](#)

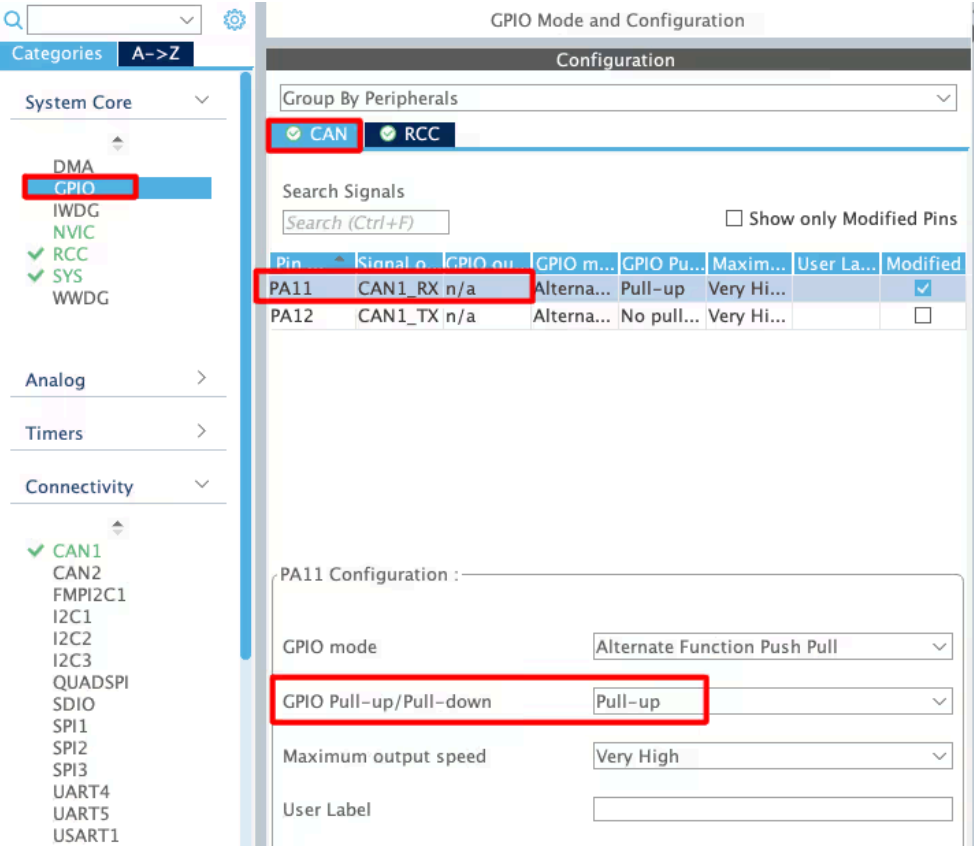
[Sem](#)

[FreeRTOS #5 || Queue](#)

[FreeRTOS #6 || Mutex](#)

[FreeRTOS #7 || Soft Timer](#)

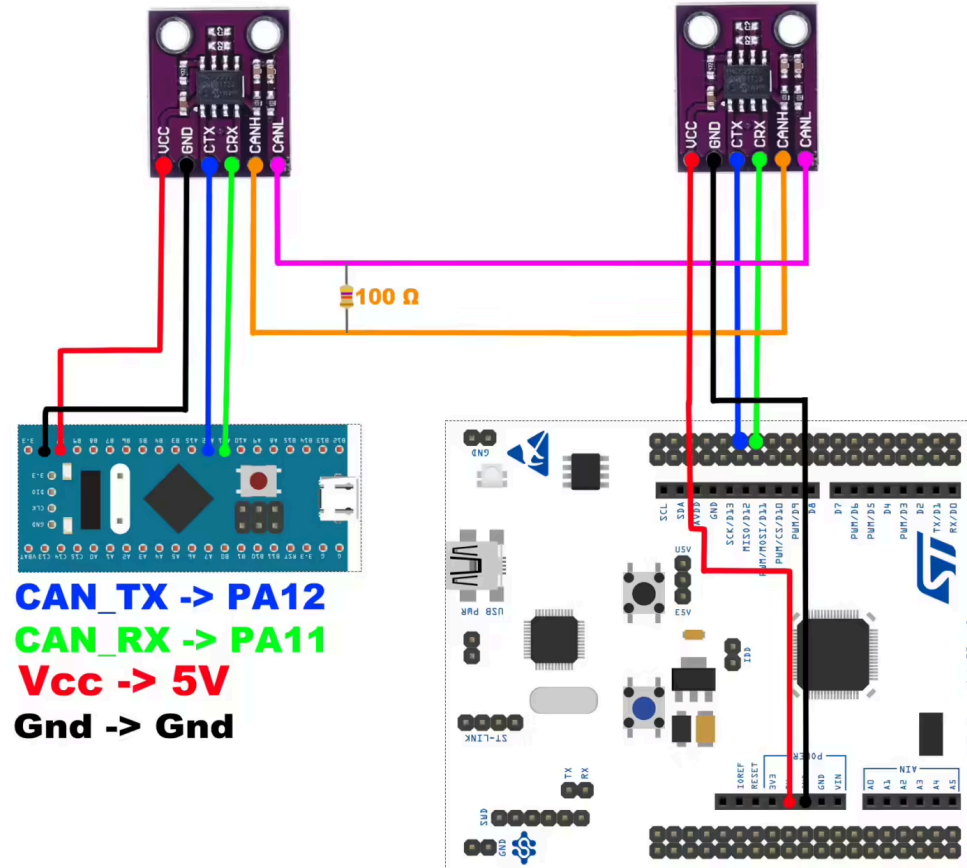
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The Connection between F446 and F103 is shown below.

[How to use DAC](#)[Low Power Modes](#)[ESP8266 WebServer](#)[Data Exchng with Websvr](#)[Cloud Data Logger](#)[Program FLASH Memory](#)[USB MSC Device](#)[USB MSC Host](#)[USB HID Host](#)[USB CDC Host & Device](#)[USB Virtual COM Port](#)[Emulate STM32 as Mouse](#)[Emulate as Keyboard](#)[WatchDogs in STM32](#)[Interface BMP180 Sensor](#)[Interface BME280 Sensor](#)[Communicate using HC-](#)[12](#)[Register Based #1 || Intro](#)

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- Here the **CAN\_Tx** and **CAN\_Rx** from the Transceivers are connected to **PA12** and **PA11** of the Respective controllers
- **CANH** and **CANL** are connected to each other
- Also there is a **120 ohms Resistance** at the node. This is very important, or else you will not get the data.

[Register Based #2 || GPIO](#)[Register Based #3 ||](#)[UART](#)[Register Based #4 || GPIO](#)[Register Based #5 || F103](#)[Register Based #6 || I2C](#)[Register Based #7 || EXTI](#)[Register Based #8 || SPI](#)[Register Based #9 || DMA](#)[Register Based #10 ||](#)[DMA](#)[Wave File Player \(I2S\)](#)[Interface WS2812 LEDs](#)[I2C](#)[Interface WS2812 LEDs](#)[SPI](#)[Using CAN Protocol](#)[FDCAN Loopback Mode](#)[FDCAN Normal Mode](#)

# How to Modify the CAN Data Frame

To do this, we will define some variables, where we can store the header and the data information.

```

CAN_TxHeaderTypeDef  TxHeader;
uint8_t               TxData[8];
uint32_t               TxMailbox;

```

- Here **TxHeader** will be used to store the header information, like RTR, DLC, etc. This is the type `CAN_TxHeaderTypeDef`.
- **TxData** is used to store the data that we are going to transmit over the CAN bus.
- **TxMailbox** is the mailbox, which will be sent to the CAN bus.

---

Now we will store the required values in the **TxHeader**, and in the **TxData**.

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## Using Incremental Encoder

Ethernet #1 || Connection

Ethernet #2 || UDP Server

Ethernet #3 || UDP Client

Ethernet #4 || TCP Server

Ethernet #5 || TCP Client

Ethernet #6 || HTTP

Websrvr

Ethernet #6.1 || Websrvr

SSI

Ethernet #6.2 || Websrvr

CGI

Ethernet #7 || UDP Serv

NETCONN

Ethernet #8 || UDP Clnt

NETCONN

Ethernet #9 || TCP Serv

NETCONN

```
TxHeader.IDE = CAN_ID_STD;
TxHeader.StdId = 0x446;
TxHeader.RTR = CAN_RTR_DATA;
TxHeader.DLC = 2;
```

```
TxData[0] = 50;
TxData[1] = 0xAA;
```

- Here **CAN\_ID\_STD** means that we are using the Standard ID (not extended)
- **0x446** is the Identifier. This is the ID of the Transmitter, and it should be maximum 11 bit wide for the Standard ID.
- **CAN\_RTR\_DATA** indicates that we are sending a data frame
- **DLC** is the Length of data bytes, and here we are sending 2 data Bytes
- Now we will store the 2 data bytes in the **TxData** array

---

We have the information ready to be transmitted, and now we will finally transmit it on the CAN bus

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[Ethernet #10 || TCP Clnt  
NETCONN](#)

[Ethernet #11 || HTTP Serv  
AJAX P1](#)

[Ethernet #12 || HTTP Serv  
AJAX P2](#)

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[Modbus Protocol #1](#)

[Modbus Protocol #2](#)

[Modbus Protocol #3](#)

[Modbus Protocol #3.1](#)

[Modbus Protocol #4](#)

[Modbus Protocol #5](#)

[Modbus Protocol #6](#)

[Modbus Protocol #7](#)

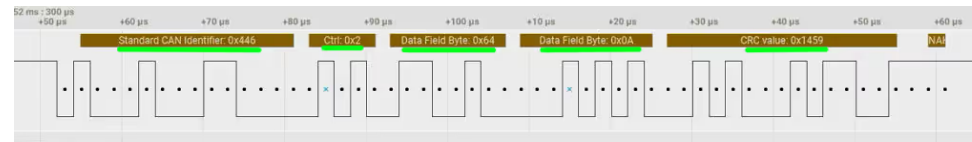
[TouchGFX #1 || Intro](#)

```
if (HAL_CAN_AddTxMessage(&hcan1, &TxHeader, TxData, &TxMailb
{
    Error_Handler ();
}
```



This can be done by using the function `HAL_CAN_AddTxMessage` . It have the following parameters

- **hcan1** is the instance of the CAN, that we are using.
- **TxHeader** is the Header of the message.
- **TxData** is the Data field.
- **TxMailbox** is the mailbox, which will carry the header and data message.



You can see above the data on the TX Line.

- **Identifier is 0x446**, the STD ID of the transmitter
- **Control Field is 0x2**, it contains DLC, RTR, IDE

- **2 Bytes** of data Field

TouchGFX #2 || Text AreaTouchGFX #3 || Send to UITouchGFX #4 || Send to UITouchGFX #5 || UART to UITouchGFX #6 || Multi ScreenTouchGFX #7 || KeyboardTouchGFX #8 || UI to MCUSTM32 I2C SLAVE PART1STM32 I2C SLAVE PART2STM32 I2C SLAVE PART3STM32 I2C SLAVE PART4STM32 I2C SLAVE PART5STM32 I2C SLAVE PART6STM32 I2C SLAVE PART7W25Q #1 || ConnectionW25Q #2 || Read

- And at last there is CRC Value, which was added by the HAL

This message is sent to the CAN bus, and now all the CAN devices on this bus will sort of receive this message. I said sort of, because whether to receive the message or not, depends on the **Filter Configuration** for each device.

If the message satisfies the conditions as per the **FILTER**, only then it will be allowed to pass.

---



---

## Filter Configuration

In order to reduce CPU Load to filter out messages, the STM32 have the Filters built inside the CAN peripheral. Let's Check them out

```
CAN_FilterTypeDef canfilterconfig;
```

```
canfilterconfig.FilterActivation = CAN_FILTER_ENABLE;
canfilterconfig.FilterBank = 18; // which filter bank to
canfilterconfig.FilterFIFOAssignment = CAN_FILTER_FIFO0;
```

```
canfilterconfig.FilterIdHigh = 0x46; // 5
```

- [W25Q #3 || Erase Sectors](#)
- [W25Q #4 || Write Pages](#)
- [W25Q #5 || Update Sectors](#)
- [W25Q #6 || Write Numbers](#)
- [W25Q #7 || QSPI MODE](#)
- [W25Q #8 || External Loader](#)
- [W25Q #9 || SPI Loader](#)
- [W25Q #10 || QSPI on H7](#)
- [W25Q #11 || Xecute In Place](#)
- [Interface HC-05 BlueTooth](#)
- [LVGL #1 || Introduction](#)
- [LVGL #2 || Create UI](#)
- [LVGL #4 || Send data to UI](#)
- [LVGL #5 || Keyboard](#)
- [LVGL #6 || QSPI Flash](#)

```
canfilterconfig.FilterIdLow = 0;
canfilterconfig.FilterMaskIdHigh = 0x446<<5;
canfilterconfig.FilterMaskIdLow = 0x0000;
canfilterconfig.FilterMode = CAN_FILTERMODE_IDMASK;
canfilterconfig.FilterScale = CAN_FILTERSCALE_32BIT;
canfilterconfig.SlaveStartFilterBank = 20; // how many fi

HAL_CAN_ConfigFilter(&hcan1, &canfilterconfig);
```

1. **FilterActivation** specifies if we want to enable Filters or not. Obviously we have to enable them

2. **SlaveStartFilterBank** specifies How many Filter Banks do we want to assign to CAN1. Basically the controllers with **dual CAN peripheral** have 28 Filter Banks, which can be distributed between these 2 CAN. Here I am assigning 20 Filter Banks
5. **FilterMode** specifies which type of Filter do we want to use. We have 2 types of filters in STM32. **MASK MODE**, where the Mask register will be used to compare some particular bits in the ID register to the incoming ID. And the **LIST MODE**, where the incoming ID is directly compared with the ID set in the ID Register.

- I am using MASK Mode here, as it

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LVGL #7 || Run from Ext Flash

UART #1 || Send Data

UART #2 || Send Data (DMA)

UART #3 || Recv Data

UART #4 || Recv Data (DMA)

UART #5 || IDLE Line

UART #6 || Half Duplex Mode

UART #7 || 1-wire protocol

UART #8 || LIN PART 1

UART #9 || LIN PART 2

UART #10 || LIN PART 3

FMC LCD #1 || Connection

FMC LCD #2 || Add Touch

FMC LCD #3 || Add LVGL

to the CAN1, and Rest to the CAN 2.

- This parameter is useless for the controllers with **single CAN peripheral**. And these Controllers have 14 Filter Banks ( 0 to 13)

3. **FilterBank** specifies which Filter Bank do we want to use for the filter Process. Here I have assigned 20 Banks for CAN 1, and I can only choose Out of these 20 Banks. So I am choosing Bank number 18.

- In case of **Single CAN Peripheral**, you can choose any

seems to be more useful

6. **FilterScale** specifies If we want to use one 32 bit Filter Register, or 2 16 bit Filter Registers.

- I am using one 32 Bit Register here.

7. **FilterIdHigh** is the Higher 16 Bits of the ID register. The value set in this register will be compared to the incoming Identifier.

- Here I have decided to only compare the **STD ID** of the incoming message, and that's why I am shifting the value by 5. The STD ID starts from 5th bit in the ID

**HIGH Register**

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[Interface TM1637 Display](#)

[Clock on TM1637 Display](#)

[Interface Passive Buzzer](#)

value between 0 to  
13

#### 4. **FilterFIFOAssignment**

specifies which FIFO are  
we going to use for the  
Receive message.

Generally we have **2**

**FIFOs** ( FIFO 0, and FIFO

1). I am choosing FIFO 0

8. **FilterMaskIdHigh** is the  
Higher 16 Bits of the  
MASK register. The value  
set in this register will  
enable the comparison of  
that particular bit in the ID  
register to that of the  
incoming ID.

The Last 2 points might be hard to understand, so I would suggest  
that you watch the video below. It could be better explained with the  
working example, and that's shown in the VIDEO.



## Check out the Video Below

-----

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## STM32 CAN LOOPBACK Mode || FILTER Configuration



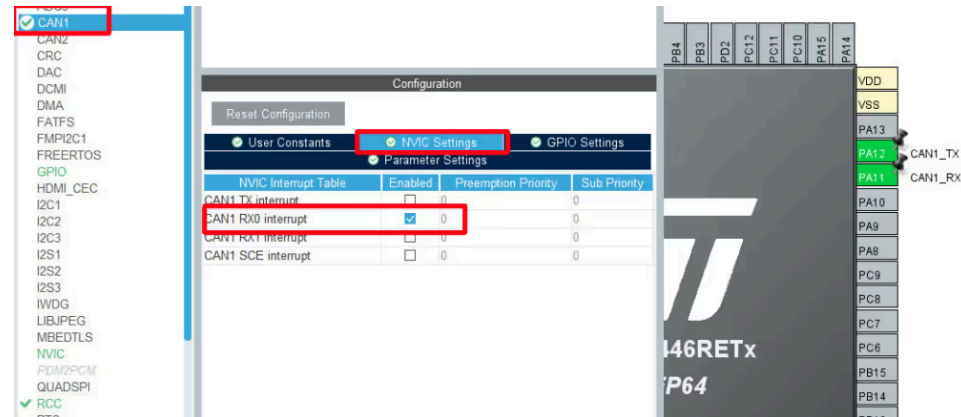
---

---

# Receiving DATA

We will use the **interrupt for the RX FIFO**, so whenever a message is passed through the Filter an interrupt will be triggered.

First of all We will enable the CAN1 RX0 interrupt in the CubeMX



Now Inside the main Function, we will **Activate the Notification** for the Received message.

```
if (HAL_CAN_ActivateNotification(&hcan1, CAN_IT_RX_FIFO0_M
{
    Error_Handler();
}
```

Here we will choose **CAN\_IT\_RX\_FIFO0\_MSG\_PENDING** . This would trigger the interrupt whenever there is some pending message in the RX\_FIFO 0. Once the interrupt is triggered, a callback function will be called. In this case, it will be

**HAL\_CAN\_RxFifo0MsgPendingCallback**

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```
CAN_RxHeaderTypeDef  RxHeader;  
uint8_t              RxData[8];  
  
void HAL_CAN_RxFifo0MsgPendingCallback(CAN_HandleTypeDef *hc  
{  
    if (HAL_CAN_GetRxMessage(hcan, CAN_RX_FIFO0, &RxHeader, Rx  
    {  
        Error_Handler();  
    }  
    if ((RxHeader.StdId == 0x103))  
    {  
        datacheck = 1;  
    }  
}
```



- Here we will **Receive** the message from **RX\_FIFO 0**.
- The **message Header** will be stored in the RxHeader, and the **data** will be stored in RxData.
- We can do **further checks**, like if the message was **received from the ID 0x103**, then the **datacheck** flag will be set.
- Later in the while loop we can perform some actions based on this flag



```
if (datacheck)
{
    HAL_GPIO_WritePin(GPIOA, GPIO_PIN_5, GPIO_PIN_SET);
}
```

For example, If the Flag is set, The **LED** will turn ON.

---

---

## RESULT

The result here is hard to put in images, so I would suggest that you watch the video for more detailed working.



## Check out the Video Below

-----

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## STM32 CAN Communication || NORMAL Mode



---

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**35 COMMENTS**

  Newest 


Guest  
Arseny

Guest  September 23, 2024 9:46 PM

Why are there two reserved bits (r0, r1) after the ID and before the data length code, if according to the documentation of Bosch there is one reserved bit r0?

 1  [Reply](#)

Guest  
Mohammadreza Mehrdad


Guest  December 3, 2023 7:00 PM


Hello,  
Thanks for your useful tutorials.  
  
I am going to use Extended CAN of stm32 but I could not find how I can do it. Is it possible you help and tell me which part of the code need to be changed.


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Regards,  
Mehrddad

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
Guest  
Alex

Guest    November 18, 2023 1:06 AM

Olá amigo, qualo modelo das placas, a menor é a BluePill e a outra é que núcleo?

 0





 Reply


Guest  
Jayaprakash

Guest    December 23, 2022 12:16 PM

Hi, I am using stm32f407 I tried your code but there is no data is received,i don't know what I Missed

 4





 Reply


Guest  
Roman

Guest    December 1, 2022 4:43 AM

Hey man! Big thanks, your code examples are a great help, especially this one. Video tutorials on youtube are great too. (if only not for the robotic voice-over, but I understand how hard it is to make a proper voice-over)

 0



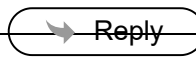
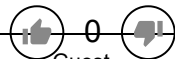
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Guest  
kaas

Guest    September 7, 2022 12:21 PM

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super ra kaasi



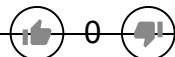
Guest  
Annika

Guest

🕒 September 2, 2022 6:38 PM

Thank you very much for this helpful tutorial. I also watched the vid on youtube for the can one master multiple slaves. Do I understand right: I can only tell a controller to which other controllers (IDs) to listen to, but I cannot tell the master to send a message to a certain slave? So all slaves listen to the master, and the master message passes the filter of all slaves, and I have to pack a "address information" into the data part of the message, which every slave has to check then? I would be very happy if you... Read more »

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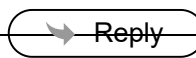
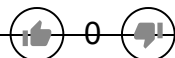


Guest  
Thamanoon Kedwiriyaarn

Guest

🕒 July 6, 2022 9:13 AM

Thank you very much Sir.



Guest  
Fabian

Guest


🕒 June 27, 2022 2:37 AM


I have to establish CAN bus communication between two stm32f407VET6 boards and it doesn't work for me, can I directly connect tx to tx and rx to rx? because I understand that the boards have two integrated can, I do not have the MCP2551, I have two MCP2515

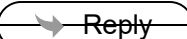
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Guest


MrH

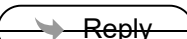
Guest

June 22, 2022 10:39 AM

Hi, I am using STM32F103C8 and I have tried your code and setup. However, your code is working on “loopback mode” and not working in “Normal Mode”. I don’t know why, it won’t transmit and wont receive message. I believe there is other people commented this problem on your youtube (CAN Normal Mode) video but has yet get an answer, also there are many other facing this issue as well (stack forum or st community) both also do not have answer. If anyone reading this and have solution please share it here. Thank you. Extra Info: If I configure in... Read more »

 4



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[View Replies \(5\)](#)

Guest

Ronter

Guest

April 2, 2022 5:05 PM


Hello,

I want to know, which is id transmitted message to me? How can I learn?


“HAL\_CAN\_AddTxMessage” methods accept uint8\_t data, can I transmit array?


In my scenario I have a master and 5 slaves. 5 slaves are sending messages to master. And I want to know, which slave sent the message to the master?

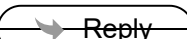
Thank you for this post.

 Last edited 2 years ago by Ronter

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Guest

March 5, 2022 1:19 AM

Нужны stm32 can

0

Reply

Guest

Jabooop

Guest

February 18, 2022 12:04 AM

Do you have any good sources on what modifications need to be made to use the FDCAN peripheral on the H7 processors? I can see some signals making it back and forth between the two boards but they analyze as Errors and after two exchanges back and forth the CAN State get stuck in BUSY.

0

Reply

View Replies

View Replies (1)

Guest

Lakshminarayana

Guest

February 10, 2022 6:43 PM

Hello Thanks for the tutorial it was helpful but i have one problem, i can only receive the data in Blue Pill but the data sent by the Bull pill is not received at F4 controller and i am using CAN BUS 2 for the communication i need as all suggested by you. but still no way i could achieve it.

could you please guide me what wrong i am doing.

Thanks

With regards

Lakshminarayana KS

0

Reply

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Guest

velan vs

Guest

December 7, 2021 11:21 AM


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https://controllerstech.com/can-protocol-in-stm32/


24/26



super bro

 0





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Guest  
Sharan

Guest    ⌚ September 23, 2021 5:48 PM

Hey, This worked well. Now is it possible to use multiple addresses with a device to transmit data? That is the slave has multiple addresses for a single device, each address has different data values. Now the master accesses the slave with multiple addresses according to the required data values. For example:- The master requires the data "time" in the slave, the master uses the particular address(0x102) for the data "time".If the master requires the data "Brightness" in the slave, the master uses the particular address(0x103) for the data "Brightness".Likewise.... Can you give me a solution to work out this in... [Read more »](#)

 0




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Guest  
tue nguyen


Guest    ⌚ August 30, 2021 9:31 PM


I use CAN1 for F407VG, it works normal but use CAN2 it does not receive data. I dont know why?

 Last edited 3 years ago by tue nguyen

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 1



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Guest  
VAN-NHI NGUYEN

Guest    ⌚ August 1, 2021 2:21 PM

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Hello, i don't know what the value 0x443 in STD ID is for, while on the receiver side we check the value 0x103.

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Har

Guest

June 26, 2021 2:47 PM

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Hi Admin,

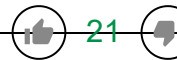
Thank you so much for your tutorials...!

I am STM32F103 CAN (MCP2561 as CAN transceiver) with 500kbps and CAN BUS ANALYZER to check the CAN msgs.

Here am sending 3 CAN msgs for every 100ms but some times some msgs are missing so that am getting the CAN cycle time as 200ms and I have followed the same procedure as above but some times my CAN msgs are missing.

what I have to do eliminate this error ?

Thanks again

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