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More	1.7A mo ⁻
	Romeo

SKU:DFR1063 (https://raw.githubusercontent.com/espressif/arduino-esp32/ghpages/package_esp32_index.json)

ntroduction

The Romeo mini robot controller is the ESP32 version of the Romeo BLE mini. It features an onboard ESP32-C3 module, supporting Wi-Fi and Bluetooth 5 dual-mode communication, and has two channels of 1.7A motor drivers.

Romeo mini has 9 IO interfaces (supporting analog, digital, UART, and I2C), with each interface compatible with the Gravity standard. It can be connected to various Gravity sensor modules. The servo interface can provide stable power supply through the servo power port for servos and other high-current devices. Additionally, it has a built-in GDI interface on the back for connecting an IPS display screen to show project-related information. The controller can meet the control requirements for robot motors and servos.

Features

- Main control + WiFi + Bluetooth 5 integrated motor driver development board
- Compact size
- Support for IPS TFT display screen
- Offers options for servo and motor control schemes

Specification

Basic Parameters:

- Main control chip: ESP32-C3-MINI-1
- Type-C input voltage: 5V
- VIN input voltage: 5-15V
- Motor output current: 1.7A continuous drive current per channel
- Servo input voltage: 5-12V
- Module size: 47x38.5mm

Interface Pins:

- Digital I/O: x4
- Analog I/O: x3
- UART: x1
- I2C: x1
- Motor: x2
- GDI: x1
- Type-C: x1

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BOOT

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Servo

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IO 3V3 GND IO 3V3 GND IO VCCGND

Board Overview

Romeo mini Control Board (ESP32-C3)

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Name	Function Description
VIN	Power input for motor driver and controller: 5-15V. This port must be connected for M1/M2 motors to work.
Servo	Power input for digital ports: 5-12V. If using high-current peripherals with voltage higher than 5V on digital output port (VCC end), connect to this interface to avoid damaging the Type-C USB port.
M1/M2 Ports	Two motor control ports:
	M1: GPIO1 (direction control), GPIO0 (PWM control)
	M2: GPIO10 (direction control), GPIO2 (PWM control)

.

	Name	Function Description	
	I2C	Standard I2C interface: SDA (8), SCL (9), VCC (3.3V), GND	
Introduction Features	A-3.3V- GND	Standard analog interface:	
Specification		A (blue): analog ports 3, 4, 5	
Board Overview Dimension Drawing		3.3V (red): power supply positive terminal	
Tutorial		GND (black): power supply negative terminal	
Frequently Asked Questions More	D-VCC- GND	Standard digital interface:	
		D (green): digital ports 6, 7, 20, 21	
		VCC (red): power supply positive terminal (When the Servo port is not powered, VCC is 5V; when the Servo port is powered, VCC is the input power for the Servo port.)	
		GND (black): power supply negative terminal	
	UART	RX (20), TX (21), VCC (5V), GND	
		Note: The UART interface shares two IO ports with servo ports, so UART cannot be used when servos are used.	
	RST	Controller reset button	
	BOOT	Controller download button	





1. Arduino Environment Configuration

When using the ESP32-C3 development board for the first time, it is important to follow these steps:

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Note: If your computer fails to recognize the Romeo Mini module when connected via USB, please press and hold the BOOT button, then press the RST button. Finally, release both the BOOT and RST buttons simultaneously.

1.Add the JSON link to the IDE. 2.Download the core of the main controller. 3.Select the development board and serial port. 4.Open the sample program and upload it. 5.Familiarize yourself with the Serial Monitor.

Arduino IDE Compilation Environment Configuration

- Configure the URL in the Arduino IDE.
- Open the Arduino IDE and click File -> Preferences, as shown in the figure below:

.

	Blink Arduino	1.8.0	
Ī	ile) Edit Sketch	Tools Help	
4	New	Ctrl+N	
Introduction	Open	Ctrl+O	
Features	Open Recent	;	
Specification 3	Sketchbook	I	
Board Overview	Examples	I	•
Dimension Drawing	Close	Ctrl+W	econd, then off for one second, repeatedly.
Tutorial	Save	Ctrl+S	ad LED man control on the 1910 MECA and 7820
Frequently Asked Questions	Save As	Ctrl+Shift+S	n 13, on MKR1000 on pin 6. LED_BUILTIN is set to
More	Page Setup Print	Ctrl+Shift+P Ctrl+P	ent of which board is used. . the on-board LED is connected to on your Arduino model, check boardat <u>https://www.arduino.cc/en/Main/Products</u>
	Preferences	Ctrl+Comma]
	Quit	Ctrl+Q	_ public domain.
	13 modified 8 M	lay 2014	
	14 by Scott Fit	zgerald	
	15		
	16 modified 2 S	Sep 2016	
	18 by Arturo Gu	ladaLupi	
1	19 modified 8 S	Sep 2016	
1	20 by Colby New	vm ar.	
	21 */		
3	22		
,	23		
1	24 // the setup f	function runs or M	nce when you press reset or power the board
-	26 // initialia	u ze digital nin l	ED BUTLITIN as an output
	27 pinMode (LED	BUILTIN, OUTPUT	[);

• In the new window, click the button indicated by the red circle in the figure below:

Introduction	Settings Network			
Features	Settings Network			
Specification	Sketchbook location:			
Board Overview	C:\Users\Fman\Documents\Ard	iino		Browse
Dimension Drawing	Editor language:	English (English) v (requires	restart of Arduino)	
Tutorial	Editor font size:	19		
Frequently Asked	Interface scale:	Automatic 100 💭 % (requires restart of Arduino)		
Questions	Theme:	Default theme \checkmark (requires restart of Arduino)		
More	Show verbose output during:	compilation upload		
	Compiler warnings:	None 🗸		
	🗹 Display line numbers	🗹 Enable Code Folding		
	✓ Verify code after upload	Use external editor		
	Check for updates on sta	tup Save when verifying or uplos	ding	
	Use accessibility featur	15		
	Additional Boards Manager UF	Ls: 2_dev_index.json, http://download.dfrobot.top/FireBeetle/package	_DFRobot_index.json	
	More preferences can be edit	ed directly in the file		
	C:\Users\Fman\AppData\Local	Arduino15\preferences.txt		
	(edit only when Arduino is r	ot running)		
			ОК	Cancel

- Copy the following link address into the dialog box that appears: https://raw.githubusercontent.com/espressif/arduino-esp32/gh-pages/package_esp32_index.json (https://raw.githubusercontent.com/espressif/arduino-esp32/gh-pages/package_esp32_index.json)
- Note: If you have previously installed other environments, you can press Enter at the beginning or end of the previous link and paste the above link on any line above or below it.

28 } 29

	Additional Boards Manager URLs	<
	Enter additional URLs, one for each row	
	https://raw.githubusercontent.com/espressif/arduino-esp32/gh-pages/package_esp32_dev_index.json]
Introduction	http://download.dfrobot.top/FireBeetle/package_DFRobot_index.json	
Features		
Specification		
Board Overview		× ex.json
Dimension Drawing	Click for a list of unofficial boards support UKLs	
Tutorial	OK Cancel	1
Frequently Asked	Click OK.	
Questions	Update the board.	
More	• Open Teels > Peard > Peards Manager - as shown in the figure below:	

• Open Tools -> Board -> Boards Manager..., as shown in the figure below:

	💿 Blink Arduino 1.8.0		
	File Edit Sketch Tools Help		
	Auto Format	Ctrl+T	0
	Archive Sketch		
	Blink Fix Encoding & Reload		
Introduction	1 /* Serial Monitor	Ctrl+Shift+M	
Introduction	2 Blink Serial Plotter	Ctrl+Shift+L	
Features	4 WiFi101 Firmware Updater	3	
Specification	5 Most Arduir Board "Produine (Genuine Zer	o (Programming Port)"	
opeometation	6 it is attac Port: "COM134"	Boards Manager	
Board Overview	7 the correct Fold Contract	Ardume SAMB (32-b	its ARM Cortex-M0+) Boards
Dimonsion Drawing	9 the Technic	Arduino/Genuino Zer	o (Programming Port)
Dimension Drawing	10 Programmer: "ArduinoISP.org	" Arduino/Genuino Zer	o (Native USB Port)
Tutorial	11 This exampl Burn Bootloader	Arduino AVR Boards	
	12	Arduino Yún	≡.
Frequently Asked	13 modified 8 May 2014	Arduino/Genuino Uno	
Questions	14 by Scott Fitzgerald	Arduno Duemilanove	e or Diecimila
Mara	16 modified 2 Sep 2016	Arduino Nano	N4 0550
More	17 by Arturo Guadalupi	Arduino/Genuino Me	ga or Mega 2560
	18	Arduno Mega ADK	
	19 modified 8 Sep 2016	Arduino Leonardo	
	20 by Colby Newman	Arduino Leonardo El	н
	21 */	Arduino/Genuino Mic	ro
	23	Arduino Esplora	
	24 // the setup function runs once when you press p	reset or power the board Arduino Mini	
	25 void setup() {	Arduino Ethernet	
	00 //	Arduino Fio	

• Boards Manager will automatically update the board, as shown in the figure below:

ĺ	💿 Boards Manager 📉 🔀
	Type All - Filter your search
Introduction Features Specification Board Overview Dimension Drawing	Arduino AVR Boards by Arduino version 1.6.17 INSTALLED Boards included in this package: Arduino Yún, Arduino/Genuino Uno, Arduino Uno WiFi, Arduino Diecimila, Arduino Nano, Arduino/Genuino Mega, Arduino MegaADK, Arduino Leonardo, Arduino Leonardo Ethernet, Arduino/Genuino Micro, Arduino Esplora, Arduino Mini, Arduino Ethernet, Arduino Fio, Arduino BT, Arduino LilyPadUSB, Arduino Lilypad, Arduino Pro, Arduino ATMegaNG, Arduino Robot Control, Arduino Robot Motor, Arduino Gemma, Adafruit Circuit Playground, Arduino Yún Mini, Arduino Industrial 101, Linino One. Online help More info
Tutorial Frequently Asked Questions More	Arduino SAM Boards (32-bits ARM Cortex-M3) by Arduino Boards included in this package: Arduino Due. <u>Online help</u> <u>More info</u>
	Arduino SAMD Boards (32-bits ARM Cortex-M0+) by Arduino version 1.6.2 INSTALLED Boards included in this package: Arduino/Genuino Zero, Arduino/Genuino MKR1000, Arduino MKRZero, Arduino MKRFox1200, Arduino M0 Pro, Arduino M0, Arduino Tian, Adafruit Circuit Playground Express. Online help
	Downloading platforms index

• After the update is completed, you can type "esp32" in the input box at the top. Then, select "esp32" when it appears and click Install (current version: 2.0.0):

	💿 Boards Manager	×
	Type All v ESP32	
	DFRobot ESP32 Boards	^
Introduction	by DFRobot version 0.2.1 INSTALLED Boards included in this package:	
Features	FireBettle ESP32-E Borad.	
Specification	More Into	
Board Overview		
Dimension Drawing	esp32	
Tutorial	by Espressif Systems Boards included in this package:	
Frequently Asked	ESP32 Dev Module, WEMOS LoLin32, WEMOS D1 MINI ESP32. More Info	
Questions		2.0.0 V Install
More		
		×
		Close

• Wait for the progress bar to finish:

	💿 Boards Manager	×
	Type All \vee ESP32	
	DFRobot ESP32 Boards	^
Introduction	by DFRobot version 0.2.1 INSTALLED Boards included in this package:	
Features	FireBettle ESP32-E Borad.	
Specification		
Board Overview		
Dimension Drawing	esp32	
Tutorial	by Espressif Systems Boards included in this package:	
Frequently Asked	ESP32 Dev Module, WEMOS LoLin32, WEMOS D1 MINI ESP32. More Info	
Questions	Tr.	nstalling
More		
		~
	Verifying archive integrity	Cancel

• After the installation is complete, the list will display the installed ESP32 board, as shown in the figure below:

>

	Boards Manager	×
	Type All V ESP32	
	DFRobot ESP32 Boards	^
Introduction	by DFRobot version 0.2.1 INSTALLED Boards included in this package:	
Features	FireBettle ESP32-E Borad, FireBettle ESP32 Borad.	
Specification		
Board Overview		
Dimension Drawing	esp32	
Tutorial	by Espressif Systems version 2.0.0 INSTALLED Boards included in this package:	
Frequently Asked	ESP32 Dev Module, WEMOS LoLin32, WEMOS D1 MINI ESP32. More Info	
Questions	Select version v Install	
More	Select version v Install	
		~
		lose

• Click Tools -> Board:, and select "ESP32C3 Dev Module" (usually the first one in the list).

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	💿 LED_PWM Arc	duino 1.8.13			×	
	File Edit Sketch T	ools Help				
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		Archive Sketch			Δ	
Introduction	LED_PWM	Fix Encoding & Reload			ESP32C3 Dev Module	
Features	18/*	Manage Libraries	Ctrl+Shift+I		ESP32S2 Dev Module	
	2 * LEI	Serial Monitor	Ctrl+Shift+M		ESP32 Dev Module	
pecification	3 */	Serial Plotter	Ctrl+Shift+L	-	ESP32 Wrover Module	
oard Overview	4 const	WiFi101 / WiFiNINA Firmware Upo	later	示输出引脚	ESP32S2 Native USB	
imension Drawing	5	Board: "Arduino Vún"	2	Boards Manager	ESP32 Wrover Kit (all versions)	
utorial	6 //设置	Port: "COM17 (ESP32C3 Dev Mod	ule)"	Arduino AVR Boards	UM TinyPICO	
requently Asked	7 const	Get Board Info		DFRobot ESP32 Arduino	UM FeatherS2	
Juestions		Programmer "AVPICD mbill"		ESP32 Arduino	UM FeatherS2 Neo	
lara	8 Const	Burn Bootloader	1		UM TinyS2	
lore	9 const	bum bootioader			S.ODI Ultra v1	
	10				microS2	
	11¤void se	etup(){			MagicBit	
	12 //PWI	12 //PWM参数设置				
	13 ledc	Setup(ledChannel, fre	eq, resoluti	ion);	TIGO TI	
	14				TIGO TZ V1 3 Mini32	
	15 //将生	15 //将生成信号通道绑定到输出通道上				
	16 ledci	XinaBox CW02				
	17 }	17 }				
	18				SparkFun ESP32 Thing Plus	
	10 moid L				SparkFun ESP32-S2 Thing Plus	
					SparkFun ESP32 MicroMod	
	20 //124	初文完			SparkFun LoRa Gateway 1-Channel	
	218 for (<pre>21</pre>				
	22 //	22 // changing the LED brightness with PWM				
	23 lea	dcWrite(ledChannel, (dutyCycle);		Electronic SweetPeas - ESP320	
	24 de.	lay(15);				
	25 }				LOLIN D32 PRO	
	26				WEMOS LOLIN32	
					WEMOS LOLIN32 Lite	
		orary round in o. (op	CTD (TIMAII (DO)	camentes (nitaatino (t.		

• Prior to getting started, you'll need to configure the following settings (if you wish to print to the Arduino monitor via USB, choose "Enable"):

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	💿 LE	D_PWM	Arduino 1.8.13		— C	x c	
	文件 第	编辑 项目	工具帮助				
			自动格式化 Ctrl+T			Ø	
			项目存档			_	
	LED 4	D_PWM	修正编码并重新加载			M	
	5	combe	管理库 Ctrl+Shift+I				•
		7.7元里	串口监视器 Ctrl+Shift+M				
	0	//以目	串U绘图器 Ctrl+Shift+L				
	/	const	WiFi101 / WiFiNINA Firmware Updater			- 1	
g	8	const	开发板: "ESP32C3 Dev Module"	>			
	9	const	Upload Speed: "921600"	>			
	10		USB CDC On Boot: "Enabled"	Disabled			
	11E	void	Upload Mode: "UART0"	> Enabled			
	12	//P	CPU Frequency: "160MHz (WiFi)"	>			
	13	led	Flash Frequency: "40MHz"	>			
	14		Flash Mode: "QIO"	>			
	15	//*	Hash Size: "4MB (32MD)"	>			
	16	led	Core Debug Level: """	>			
	17	}	端口: "COM17 (ESP32C3 Dev Module)"	>			
	18	1	取得开发板信息				
	19E	void	· · · · · · · · · · · · · · · · · · ·	>			
	20	//i	烧录引导程序				
	215	for	(int dutyCycle = 0; dutyCycle <= 255; dutyCycle-	++) {			
	22	1	/ changing the LED brightness with PWM				
	23	1	edcWrite(ledChannel, dutvCvcle);				
	2.4	d	elav(15);				
	25	}					
	26	, '					
	27	1/13	新变暗				
	28	for	(int dutyCycle = 255; dutyCycle >= 0; dutyCycle) (
	200	. 101	(int autypycie - 255, autypycie >- 0, autypycie	/ 1			
	29		/ Changing the LED Dightness with PWM				-
	编译完	三成。					

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项目使用了 205062 字节,占用了 (15%) 程序存储空间。最大为 1310720 字节。 全局变量使用了9164字节, (2%)的动态内存,余留318516字节局部变量。最大为327680字节。

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• Click on "Port" and select the corresponding serial port. (If the port keeps appearing and disappearing, you need to press and hold the BOOT button, then press the RST button, and finally release both the BOOT and RST buttons simultaneously).

ESP32C3 Dev Module 在 COM

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	File Ec	dit Sketch	Tools Help		
			Auto Format	Ctrl+T	De la companya de la
			Archive Sketch		
	WiF	iClient	Fix Encoding & Reload		⊻
Introduction	1E	/*	Manage Libraries	Ctrl+Shift+I	^
Features	2	* T]	Serial Monitor	Ctrl+Shift+M	ca.sparkfun.com service.
Specification	3	*	Serial Plotter	Ctrl+Shift+L	-
Board Overview	4	* Y	WiFi101 / WiFiNINA Firmware Updater		arkfun.com and paste them
Dimension Drawing	5	* be	Board: "ESP32C3 Dev Module"	>	her HTTP servers.
	6	*	Upload Speed: "921600"	>	
lutorial	7	*/	USB CDC On Boot: "Disabled"	>	
Frequently Asked	8	, í	Upload Mode: "UART0"	>	
Questions	0	#ingl	CPU Frequency: "160MHz (WiFi)"	>	
More	2	#INCI	Flash Frequency: "80MHz"	>	
	10		Flash Mode: "QIO"	>	
	11	const	Flash Size: "4MB (32Mb)"	>	
	12	const	Partition Scheme: "Default 4MB with spiffs (1.2MB APP/1.5MB SPIFFS)"	>	
	13		Core Debug Level: "None"	>	
	14	const	Port: "COM17 (ESP32C3 Dev Module)"	;	Serial ports
	15	const	Get Board Info		
	16	const	Programmer	>	
	17		Burn Bootloader		
	18	void	setup()		
	19E	{	-		
	20	S	erial.begin(115200);		
	21	de	elay(10);		

2. PWM-driven DC Motors

Requirements

• DC Motors: x2

💿 WiFiClient | Arduino 1.8.13

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• Romeo Mini: x1

Connection Diagram

Introduction	The module is powered by 5-15V. Choose an appropriate power supply voltage based on the motors.
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Romeo mini Control Board (ESP32-C3)



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Romeo mini Control Board (ESP32-C3)

	EN	РН	Function
	Н	Н	Forward
Introduction	Н	L	Reverse
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Tutorial			
Frequently Asked			

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Sample Code

Introduction Features Specification Board Overview Dimension Drawing Tutorial Frequently Asked Questions More	<pre>int EN1 = 0; // PWM control for motor M1 int PH1 = 1; // Direction control for motor M1 int EN2 = 2; // PWM control for motor M2 int PH2 = 10; // Direction control for motor M2 void setup() { pinMode(EN1, OUTPUT); pinMode(PH1, OUTPUT); pinMode(EN2, OUTPUT); pinMode(PH2, OUTPUT); } </pre>
	M1_Forward(200); // Motor M1 moves forward with adjustable PWM M2_Forward(200); // Motor M2 moves forward with adjustable PWM
	delay(5000); M1 Backward(200): // Motor M1 moves backward with adjustable PWM
	M2_Backward(200); // Motor M2 moves backward with adjustable PWM delay(5000);
	}
	<pre>void M1_Forward(int Speed1) // Forward fast decay mode for M1 motor, larger Speed1 value resu {</pre>
	<pre>analogWrite(EN1, Speed1); digitalWrite(PH1, LOW);</pre>
	}
	void M1_Backward

Example Result: Execute the sample program by commanding simultaneous rapid forward rotation of motors M1 and M2, followed by simultaneous slow reverse rotation of motors M1 and M2.

3. PWM-Driven Servo Motor

Prerequisites:

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- 5V PWM servo motor x1
- Romeo mini x1

Connection Diagram:

If you need to operate a servo motor or peripheral device with a voltage higher than 5V, connect the Servon terminal to the power supply. The power supply range should be between 5-12V. The VCC terminal voltage is equal to the input voltage at the Servon terminal. When the Servon terminal is not connected, the default VCC terminal voltage is 5V.



Romeo mini Control Board (ESP32-C3)

Sample Code

Introduction	<pre>void setup() { ledcSetup(0, 5000, 10); // Configure channel 0 with a frequency of 5KHz and 10-bit resolut: ledcAttachPin(6, 0); // Assign pin 6 as the output pin for channel 0</pre>		
Features	}		
Specification			
Board Overview	void loop() { ledcWrite(0, 125); // Set the output of channel 0 to 125, producing a DWM output of 0 to 100%		
Dimension Drawing	delay(1000);		
Tutorial	<pre>ledcWrite(0, 25);</pre>		
Frequently Asked	delay(1000);		
Questions	}		
More			

Example Result: Burn the sample program to cyclically rotate Servo 1 in the range of 0-180°.

4. Driving an SPI Display

Prerequisites:

- 1.47" 172×320 IPS LCD Display Module (https://www.dfrobot.com/product-2638.html)
- Romeo mini x1
- The DFR0664, DFR0649, DFR0847, DFR0928, and DFR0995 models are all compatible with the Romeo mini controller. For detailed usage instructions, please refer to the display's wiki page.

Connection Diagram:



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Sample Code

Introduction	<pre>#include "DFRobot_GDL.h" #define TFT_DC 8 #define TFT_CS 7</pre>
Features	#define TFT RST 9
Specification	_
Board Overview	<pre>DFRobot_ST7789_172x320_HW_SPI screen(/dc=/TFT_DC,/cs=/TFT_CS,/rst=/TFT_RST);</pre>
Dimension Drawing	//DFRobot ST7789 172x320 DMA SPI screen(/dc=/TFT DC,/cs=/TFT CS./rst=/TFT RST):
Tutorial	
Frequently Asked Questions	<pre>void setup() { screen.begin();</pre>
More	<pre>screen.setTextSize(2);</pre>
	<pre>screen.fittScreen(CoLOR_RGB505_BLACK); // Set the background color screen.setFont(&FreeMono24pt7b); // Set the font size (9, 12, 18, 24) screen.setCursor(/x=/32, /y=/200); // Set the text position screen.setTextColor(COLOR_RGB565_LIGHTGRAY); // Set the text color screen.setTextWrap(true); screen.print("DF"); // Display the English characters } void loop() {</pre>
	<pre>// Empty loop as no further actions are required for this example }</pre>

Example Result: Burn the sample program to display the gray English characters "DF" on the screen.



More

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Frequently Asked Questions

Burn Error

Cause

• If the delay in the loop is too short or no delay is added, it can result in a timeout error during the burning process.

fatal error occurred: Timed out waiting for packet header fatal error occurred: Timed out waiting for packet header

• Incorrectly calling certain functions can cause the computer to not recognize the USB connection.

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无法识别的 USB 设备 跟这台计算机连接的前一个 USB 设 备工作不正常, Windows 无法识别 它。 Windows 资源管理器

Solution

Press and hold the BOOT button, then click the RST button, and finally release the BOOT button.

No Serial Output

Solution

- Check if USB CDC is enabled.
- Use a different serial debugging tool to view the print information.
- For more questions and interesting applications, you can visit the forum for reference or to post your queries.

More

- esp32-c3-mini-1 datasheet (https://www.espressif.com.cn/sites/default/files/documentation/esp32-c3mini-1_datasheet_en.pdf)
- Motor driver chip drv8220 datasheet (https://dfimg.dfrobot.com/5ea64bf6cf1d8c7738ad2881/wiki/0d792b7309275ae76bd61cbc548219d2. pdf)

• Schematic V1.0.0

(https://dfimg.dfrobot.com/5ea64bf6cf1d8c7738ad2881/wiki/1a43b798fa4191f577a9bc8fa17dc3dc.pd f)

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