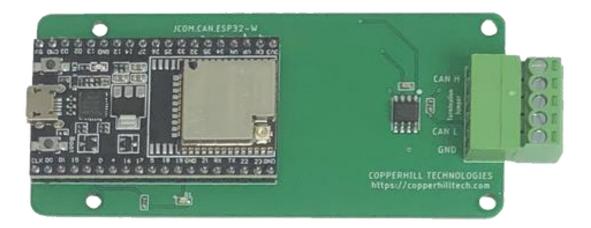


JCOM.J1939.USB-B Firmware Update



Note: The firmware update works <u>only</u> for these SAE J1939 devices:

- 1. SAE J1939 ECU Simulator Board with USB Port...
- 2. SAE J1939 Starter Kit and Network Simulator...

Firmware History

V xx.yy.zz xx = Major Modifications yy = Minor Modifications zz = Bug Fixes

Updating the JCOM.J1939.USB-B Firmware

To update the firmware, please follow the steps as described here:

1. Check the Firmware Version Number

In the JCOM1939 Monitor software, select the "Gateway" tab. Please make sure, the communication with the gateway was initiated by clicking the "Start COM" command button, otherwise the gateway will not report the firmware version.

ECU Setup Filter Transmit Byte Data Bit Data Recorder Network	Gateway Settings	
RESET - ACK ADDFILTER - ACK	HEART message	Hardware Version: 6.00.00 Software Version: 1.31.00
SETMSGMODE - ACK	Request Status	Heartbeat Frequency [msec]: 1000 Submit Heartbeat Enable ACK (Acknowledgment) Checksum Errors: 0 Stuff Byte Errors: 0
	V Clear Log	FLASH

In the upper right position of the tab, check the Software Version number and verify it with the newest version.

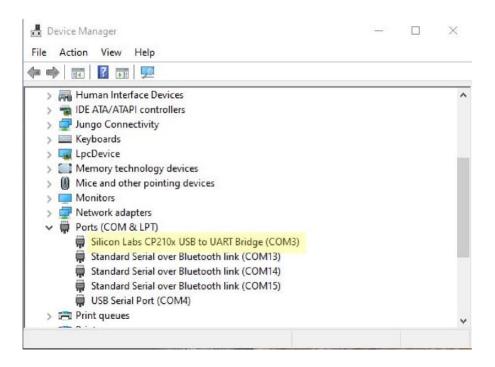
2. Download the Firmware File

To update the device's software (i.e., the firmware), we provide a .bin file that can be loaded directly per USB port (see the following steps). Please store this file into a folder of your choice.

• Download the .bin firmware file...

3. Update the firmware using the ESP32 Flash Tool

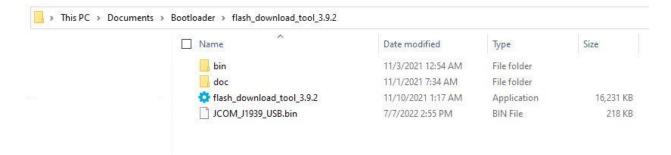
First, connect the JCOM gateway board to your PC (USB port) and verify the COM Port number per Device Manager.



Unless you have already done so, you need to download the ESP32 Flash Tool:

• Download the ESP32 Flash Tool (.zip)...

Extract the file in a folder of your choice. Please note that the tool does not require an installation process. The zip file contains an executable file (flash_download_tool_3.9.2.exe) that will run on your Windows PC when activated per double-click.



In the above example, we stored the files in a folder under Documents.

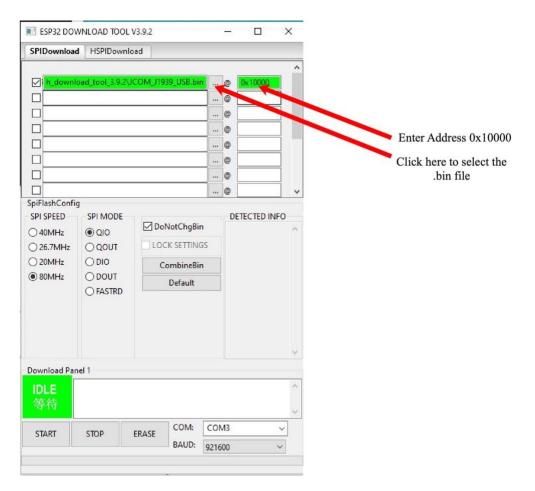
Important! Do not run the executable file through a network connection or on a virtual machine! It will not operate properly in such environments.

Double-click on the executable file to run it. The following screen will appear:

	^			
		DOWN		
			ESP32	
		chipType:	ESP32	
	~			\$

Select "ESP32" as the "chipType," then click OK.

In the following screen, make sure all settings are as shown here:



Please make sure you check the box next to the filename. Both boxes, for the filename and the address, should be green.

In this example, the COM port is shown as COM3, which is the default setting for the JCOM gateway board. It may, however, differ on your computer.

Select a baudrate of 921600.

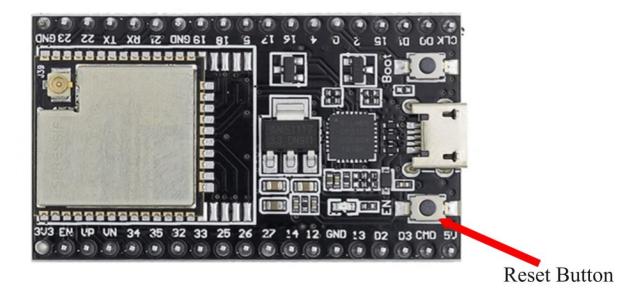
To program the firmware, click the *START* button.

ESP32 DOV	VNLOAD TOOL	V3.9.2			200		×	
SPIDownload	HSPIDown	load						
							^	
	bad_tool_3.9.2	JCOM_J19	139_USB.bi	n	0	0x10000		
					0			
					0			
					0			
					0			
					0			
					0			
SpiFlashConfic					0		~	
SPI SPEED	SPI MODE				D	ETECTED INFO	,	
O 40MHz	Olo O	Do	DoNotChgBin			ash vendor:	~	
026.7MHz	QOUT	LO				Eh : N/A ash devID:		
◯ 20MHz	O DIO CombineBin			n		016h UAD:32Mbit		
80MHz		_	Default			crystal:		
			-		4	0 Mhz		
							Ŷ	
Download Pan	el 1							
	AP: 58BF258B BT: 58BF258B7				755	7	< >	
START	STOP	ERASE	COM:	COM	M 3	~]	
			BAUD:	9216	921600 ~			

During the firmware loading (flash) cycle, the onboard LED will dim, indicating the flash procedure.

4. Reset the Gateway

After successful firmware update, you need to reset the device by either pushing the onboard *Reset* button or by removing the USB connector and reconnecting it (power off-on cycle).



Please verify the new version number as described previously.