

For Windows

VEGA Setup & Installation

Using Arduino IDE



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Pre-requisites:

Windows 10 or above (64 bit)

VEGA Arduino is an Arduino IDE board support maintained by C-DAC, which makes it easy to develop Application programs for VEGA Processors.

Download & Install Arduino IDE 1.8.19

<https://downloads.arduino.cc/arduino-1.8.19-windows.exe>

- Open the Arduino IDE
- Open *File -> Preferences*, Add below JSON in “*Additional Boards Manager URL*”, Press OK

C-DAC VEGA Arduino JSON

https://gitlab.com/riscv-vega/vega-arduino/-/raw/main/package_vega_index.json

- Open *Tools -> Boards -> Board manager*, Search for “Aries”
- Install the latest version of “*VEGA ARIES Boards*”
- Select *Tools -> Boards -> VEGA Processor: ARIES Boards -> ARIES v2*
- Select *Tools -> Flash Mode: -> Disabled*
- Select *Tools -> Programmer -> VEGA XMODEM*
- Connect the Aries board to PC (Reset the board if already connected)
- Select *Tools -> Port -> COM*(ARIES Board)*
- Open *Tools -> Serial monitor*
- Select *115200 baud* in Serial Monitor



- Open *File -> Examples-> “Examples for ARIES v3 -> UART -> Hello World”*
- Click the *“Verify”* button for compile the program
- Click the *“Upload”* button to upload the program
- Open *Tools -> Serial monitor*
- “Hello World” message will scroll in the Serial Monitor window



- If you encounter any port-related issues, make sure to install the USB communication driver by following the below steps:
- Download the CP210 driver from the below link in case port is not detected:

https://www.silabs.com/documents/public/software/CP210x_Universal_Windows_Driver.zip

- Extract the zip file to the folder
- Connect the ARIES v3 board
- Go to *Device Manager -> Ports (COM & LTP) -> Right Click on Silicon Labs CP210x USB to UART Bridge -> Update Driver -> Browse my computer for a driver -> Browse and Select the path for extracted folder CP210 driver* - Click on *Next -> Install*

Thanks!

Any questions?

You can find us at:



youtube.com/vegaprocessors



www.vegaprocessors.in



[VegaProcessor](https://twitter.com/VegaProcessor)



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