



Canonical

Ubuntu 24.04 for Arduino VENTUNO Q

20260729-248 Release Notes

Ver. 1.0

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Purpose

This is the release of Ubuntu 24.04 for the Arduino VENTUNO Q platform. This image is built and validated by Arduino using an optimized Ubuntu provided by Canonical. Arduino rebuild aims to add additional packages on top of Ubuntu to enhance user experience. Arduino packages are maintained by Arduino outside of Ubuntu (details in the dedicated section).

Image download and Installation instructions

Ubuntu Desktop

- [Ubuntu Desktop 24.04 image](#)

Qualcomm boot firmware

- <https://artifacts.codelinaro.org/artifactory/qli-ci/flashable-binaries/ubuntu-fw/QCS8300/QLI.1.7-Ver.1.3/QLI.1.7-Ver.1.3-ubuntu-QCS8300-nhlos-bins.tar.gz>

Ubuntu 24.04 for Arduino VENTUNO Q [image installation instructions](#).

Tested on Hardware Platforms

This release has been validated through a collaboration between Canonical and Arduino. Canonical has validated Ubuntu features on VENTUNO Q, while Arduino has performed the complete end-to-end testing including Arduino features.

List of Packages maintained by Arduino

Package name	Version	License
adbd	34.0.5-12arduino7 or greater	Apache-2.0
android-libbase	1:34.0.5-12arduino7 or greater	GPL-3.0
android-libcutils	1:34.0.5-12arduino7 or greater	GPL-3.0
android-liblog	1:34.0.5-12arduino7 or greater	GPL-3.0
arduino-app-cli	0.12.0 or greater	GPL-3.0
arduino-app-lab	0.9.0 or greater	GPL-3.0

arduino-cli	1.5.0 or greater	GPL-3.0
arduino-desktop-customization	1.0.0 or greater	GPL-3.0
arduino-router	0.9.0 or greater	GPL-3.0
arduino-ventuno-q-config	0.3.0 or greater	GPL-3.0
arduino-ventuno-q	0.2.0 or greater	GPL-3.0
arduino-linux-config	0.2.0 or greater	GPL-3.0
arduino-flasher-cli	0.5.1 or greater	GPL-3.0
arduino-cloud-connector	0.1.0 or greater	GPL-3.0

List of Ubuntu Features

Feature	Description	Status
CPU	Octo-core (2.35 GHz) (2x Gold+, 2x Gold, 4x Silver) DMIPS: Up to 138K (inline optimized)	Supported
GPU	A623 MH 3.0 @ 73 fps / 1.3 TOPS FP32 Mesa and Adreno are available from PPA	Supported
Storage: eMMC	1x64GB eMMC	Supported
PCIe	1x 2L Gen4 to packet switch for USB 3.0 and WiFi	Supported
Display	1x USB-C (DP Alt Mode)	Supported
Display	1x HDMI (via ADV7535 bridge, muxed with DSI header)	Supported
3 x CSI Camera connectors		Supported

Camera model	Arducam IMX577 supported	Supported
	Arducam IMX477 supported	Not supported
	RaspberryPi Camera v2, Sony IMX219	Not supported
	RaspberryPi Camera v3, Sony IMX708	Not supported
	Raspberry Pi AI Camera, Sony IMX500	Not supported
	Raspberry Pi Camera v1, OmniVision OV5647	Not supported
UVC/UAC Host mode		Supported
USB	2x USB 3.0 Type-A (host mode)	Supported
	2x USB 3.0 on Expansion Headers (host mode)	Supported
WLAN	m.2 module (NFA765A - HSP) - directly to PCIE0 2x printed antennas	Supported
BT	m.2 module (NFA765A - HSP) - directly to PCIE0 2x printed antennas	Enabled
Ethernet	RJ45 2.5 GbE MD	Supported
I2C		Supported
SPI		Supported
CAN	1x CAN-FD on LS expansion	Not Validated
GPIO driver		Supported
Pinctrl		Supported
IPC Controller support		Supported
SCM drivers		Supported
Power Management	Suspend and Resume	Not supported
	Cold boot	Supported
	Warm boot	Supported
Audio	ALSA and Pipewire	Supported
	Playback	Supported
	Recording	Supported
JMEDIA CARRIER		

Display DSI		Not supported
Audio	1x Stereo Headphone & 1x Mono Earpiece Amplifier & 1x Line out (Integrated in MAX98091 Codec via I2S)	Supported
	2x Analog Microphone Input (Digitized via MAX98091 Codec via I2S)	Supported
2 x CSI Camera connectors		Supported

(*) Feature Implementation Status

- Supported: The feature is implemented and supported in Ubuntu as long term solution
- Enabled: The feature is available, but may have some limitations, such as
 - implemented using downstream solution
 - available from PPA
 - may not be maintained in Ubuntu as long term solution
- Not Supported: The feature has not been implemented yet, but planned to be implemented in the future releases
- Not Validated: The feature is integrated but Canonical is unable to validate it
- Out-of-Scope: The feature is not applicable to the HW or Ubuntu

(**) Enabling this feature requires downloading firmware from a third-party vendor. Qualcomm will provide instructions in the Quick Start Guide for downloading and flashing the firmware.

Report Bugs

- To report a bug, please contact Arduino from <https://www.arduino.cc/en/contact-us/>