

VENTUNO Q

Microprocessor (MPU)	Qualcomm Dragonwing™ IQ8 (IQ-8275): • CPU: 8-core Qualcomm® Kryo™ • GPU: Qualcomm® Adreno™ 623 • NPU: Qualcomm® Hexagon™ 40 dense TOPS • Qualcomm Spectra 692 ISP OS: Ubuntu or Debian upstream
Microcontroller (MCU)	STM32H5F5: • Arm® Cortex® M33 at 250MHz • 4MB flash • 1.5MB RAM OS: Arduino core on Zephyr
RAM	16GB LPDDR5
Storage	• 64GB eMMC • M.2 connector for NVME Gen.4 external storage
Connectivity	• Wi-Fi® 6 2.4/5/6 GHz with onboard antenna • Bluetooth® 5.3 with onboard antenna • 1x 2.5Gbit RJ45
Camera	• USB camera support • 3x MIPI CSI connectors muxed with 2x MIPI CSI on JMEDIA header
Video	• 1x HDMI muxed with MIPI DSI on JMEDIA header • Video output (DP Alt mode) support via USB-C • MIPI DSI pins on JMEDIA header
Audio	2x Microphone IN / Headphone OUT / Ear OUT / Line OUT on JMISC header
Power Supply	• From USB-C connector 5 VDC max at 3 A • 5.5x2.1 mm Power Jack 12-24 VDC • Screw Terminal 7-24 VDC • 7-24 V on JOMEGA

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USB	• 1x USB-C port with host/device role switching, power role switch and video output • 2x USB 3.0 Type A • 2x USB 3.0 on JOMEGA header
CAN	• 1x CAN-FD PHY on screw terminal • 3x CAN-FD (no PHY) on JOMEGA header • 1x CAN-FD (no PHY) on UNO Shield headers
Dimensions	• 160x100x25.8 mm