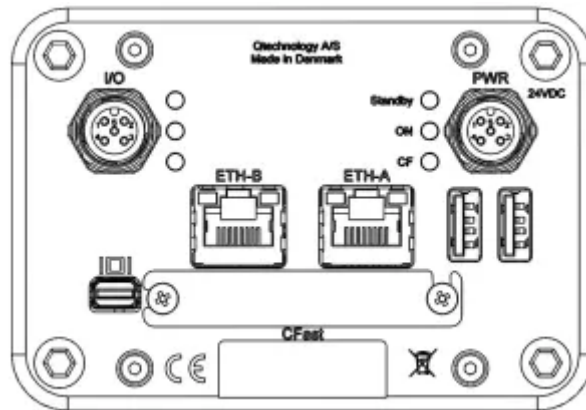


AMD APU Series



QT5022 – QT5222 AMD APU Specifications

General

Enclosure:	Anodised Aluminium
OS support:	GNU/Linux
Power:	24V DC
Consumption:	Max. 25W
Size:	167 x 104 x 72 mm (L x W x H)
Weight:	1.3 kg
Operating temp.:	0 – 45 °C
Storage temp.:	-20 – 60 °C
Mount:	2 x M6 and 1 x 1/4-20 UNC (each side)

Hardware

CPU:	AMD Dual-core 1.65GHz/Quad-core 2GHz (3.25GHz external cooling)
GPU:	Radeon 2 CU – Vega 8 CU
Memory:	4GB DDR3, 1066 (soldered down)
FPGA:	Xilinx Kintex
CFast:	Slot for boot media
Ethernet:	10/100/1000Base-T (x2)
USB:	USB 2.0 (x2)
Display:	Mini DisplayPort
I/O:	Trigger, Flash and GPIO
Wifi:	Optional Wi-Fi 802.11b/g/n/ac 2.4/5.0 GHz 22 MU-MIMO

Software

OS:	GNU/Linux (OpenEmbedded/Yocto)
Camera control:	V4L2 API
Boot:	PXE, USB or CFast
Web:	Web interface for viewing and configuration

Application Software

C/C++, GStreamer, OpenCV, OpenCL, Halcon, MATLAB, GNU Octave, Python, Jupyter notebook, and more.

FPGA Preprocessing

Sensor:	Flexible LVDS sensor interface
GainMap:	Lens vignetting and light correction
Colour:	Color correction processing
Matrix:	Filter matrix operations
Planes:	Multiplane image generation
LUT:	User-defined pixel value translation