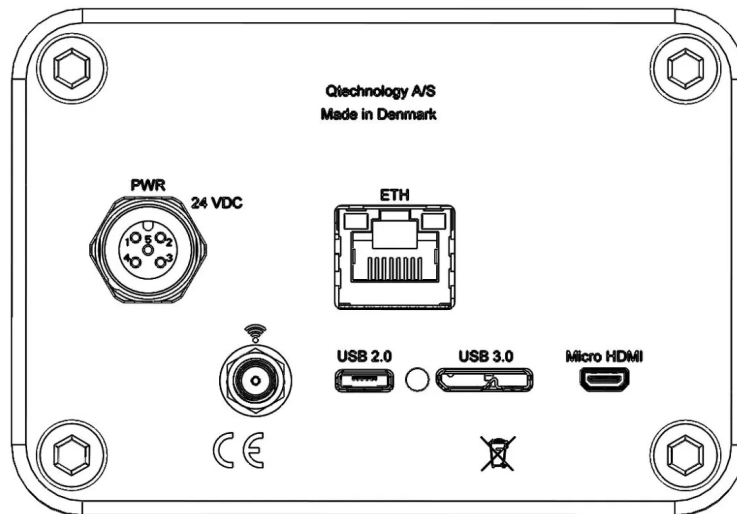


Snapdragon Platform



QT5506 Snapdragon 820 Specifications

General

Enclosure:	Anodised Aluminium
OS support:	GNU/Linux
Power:	24V DC
Consumption:	Max. 15W
Size:	80 x 104 x 72 mm (L x W x H)
Weight:	850g
Operating temp.:	0 – 45 °C
Storage temp.:	-20 – 60 °C
Mount:	2 x M6 (each side)

Hardware

CPU:	Qualcomm Kryo Quad-core 64-bit
GPU:	Qualcomm Adreno™ 530
DSP:	Qualcomm Hexagon™ 680
Memory:	4GB LPDDR4 1866 (POP)
FPGA:	Xilinx Kintex
Flash:	32GB UFS 2.0 Flash
Ethernet:	10/100/1000Base-T (x1)
USB:	USB 3.0 (x1) and USB 2.0 (x1)
Display:	Micro HDMI
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 Flash
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
Color:	Color correction processing
Matrix:	Filter matrix operations
Planes:	Multiplane image generation
LUT:	User-defined pixel value translation