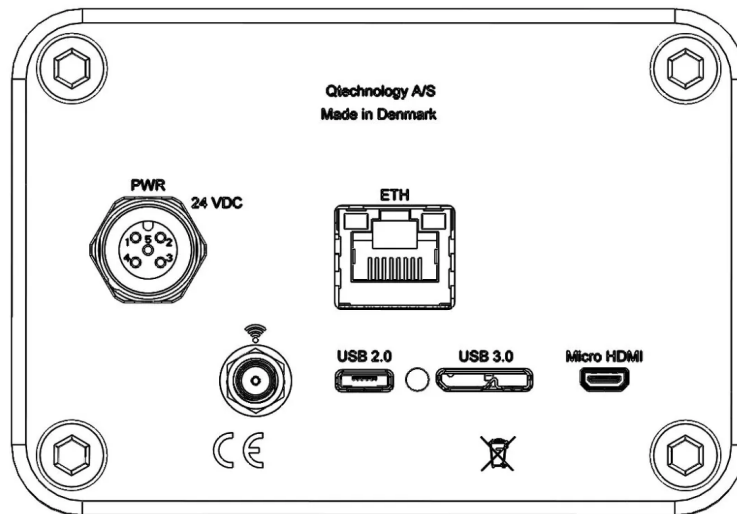


# Snapdragon Platform



## QT5506-CSI Snapdragon 820 Specifications

### General

|                  |                             |
|------------------|-----------------------------|
| Enclosure:       | Anodised Aluminium          |
| OS support:      | GNU/Linux                   |
| Power:           | 24V DC                      |
| Consumption:     | Max. 8W                     |
| Size:            | 65 x 65 x 65 mm (L x W x H) |
| Weight:          | 500g                        |
| 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)                                |
| 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 N/A

CSI: 4-lane CSI (41-pin connector)