

# eluminocity

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Light & Charge  
Connect-Modul

## Datasheet

eluminocity Embedded sensor module

## Product description

The embedded sensor can be implemented into urban infrastructure & platforms, only restricted by its overall installed size and power supply.

The hardware sensor is based on the raspberry 3 microcontroller & Add-ons to analyze images/videos.

## Specifications Cam

<b>Description</b>	Two high definition camera modules. High data rates are possible.
<b>Image sensor</b>	Sony IMX 219 PQ CMOS image sensor 8 MP (3280x2464)
<b>Connection</b>	15-pin ribbon cable, to the dedicated 15-pin MIPI Camera Serial Interface (CSI-2)
<b>Lens size</b>	1/4" or wide angle lenses (160°)
<b>Dimension</b>	23,86 x 25 x 9 mm

## Specifications Microcontroller

<b>Description</b>	The Raspberry Pie 3 is utilized as a platform to run the analyzing software to detect patterns in images / videos.
<b>Chip Set</b>	ARM Cortex - A53 Quad - CPU clock 1200 MHz
<b>RAM</b>	1024 MB
<b>Memory</b>	0 (max. 64 GB) Memory
<b>External I/O</b>	LAN 10/100 HDMI
<b>Interfaces</b>	CSI, DSI, microSD-Slot, WLAN, BT, USB, Audio, SPI, I2C, UART

**Measures**                      Length: 85 mm  
                                         Width: 56 mm  
                                         Height: 17 mm

**Operating voltage** 5 V

**Low-voltage input** 5 V DC / 2,5 A via micro USB socket

## Specifications GSM Module

**Description**                      This module will be implemented as a dongle or shield. For simplicity reasons, right now we are using the dongle.

**Type**                                      UMTS Stick

**Interfaces**                              USB

**Measures**                              Height: 10,5 mm  
                                         Width: 27 mm  
                                         Length: 84,5 mm

**Data Services**                      3G (UMTS - 900/2100 MHz dual band), 2G (GSM - 850, 900, 1800, 1900 MHz quad band), EDGE/GPRS

