

# 4k IP Board-Level Camera

801-IP-678

## Product Features

- Sony Starvis 2
- Optional Autofocus
- NDAA Compliant
- GPIO
- Embedded Linux



## Board-level 4k IP Camera

The 801-IP-678 is a 4k (8 Megapixel) IP camera with API support for programming and configuration. The camera is based on an embedded RISC-V processor with embedded Linux for application development. The camera can be directly connected to any DHCP-enabled network or use a static IP.

## Technical Specifications

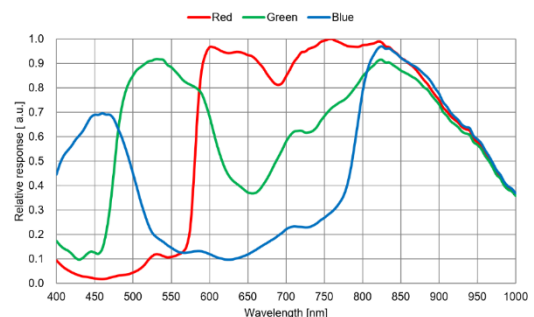
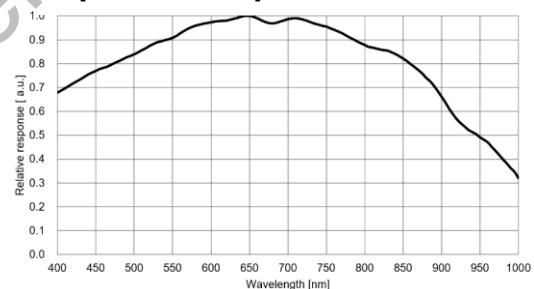
### Sensor Data

Image sensor	Sony IMX678, Starvis 2
Sensor Size	1/1.8"
Max. Resolution	3840 x 2160
Optical Size	1/1.8"
Pixel size	2.0 $\mu\text{m}$ x 2.0 $\mu\text{m}$
Shutter	Progressive
Sensitivity	0.05 lux (0.04 lx ~ 0.07 lx)

### Certifications/Warranty

REACH	Compliant
RoHS	Compliant
NDAA	Compliant

### Spectral Response



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## Camera Data & Functionality

Video Resolution(s)	3840 x 2160, 1920 x 1080
Aspect Ratio(s)	16:9
Video CODEC	H.265/H.264/MJPEG
Streaming	Up to 3 streams
Frame Rate @ 2160p	12.5, 15, 25 & 30 fps
Frame Rate @ 1080p	25, 30, 50 & 60 fps
Processor	Quad-core CPU 64-bit RISC-V
Latency	Typ. < 300 ms
Shutter	Auto/Manual
Virtual Pan/Tilt/Zoom	Yes
Real Time Clock (RTC)	Yes
RTC Battery Backup	Yes
Micro SD-Card	Optional, <a href="#">See Accessories</a>
GPIO	TBA

## Electrical

Input Voltage	5-15 VDC
Power @ 12 VDC	2.7 W (typ) 4.2 W (max)

## Environmental

Operating Temp.	-30° C ~ 80° C (-22° F ~ 176° F)
Storage Temp.	-40° C ~ 85° C (-40° F ~ 185° F)
Operating Humidity	25% ~ 90% RH (non-condensing)
Storage Humidity	< 75% RH

## Part Number

Base Part Number	801-IP-678-xyzpq
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Option x	0	No lens Mount
	1	Low M12 Lens Mount, 10mm
	2	M12 Lens Mount, 16mm
	3	n/a
	AF	TBA
	1H	Low M12 Lens Mount & Heatsink
	2H	M12 Lens Mount & Heatsink
	AFH	TBA
	0E	n/a
	2E	n/a
AFE	n/a	

Option y	C	Color
	M	Mono

Option z	0	No IR-Filter

Option p	DC	Direct Current
	PoE	TBA



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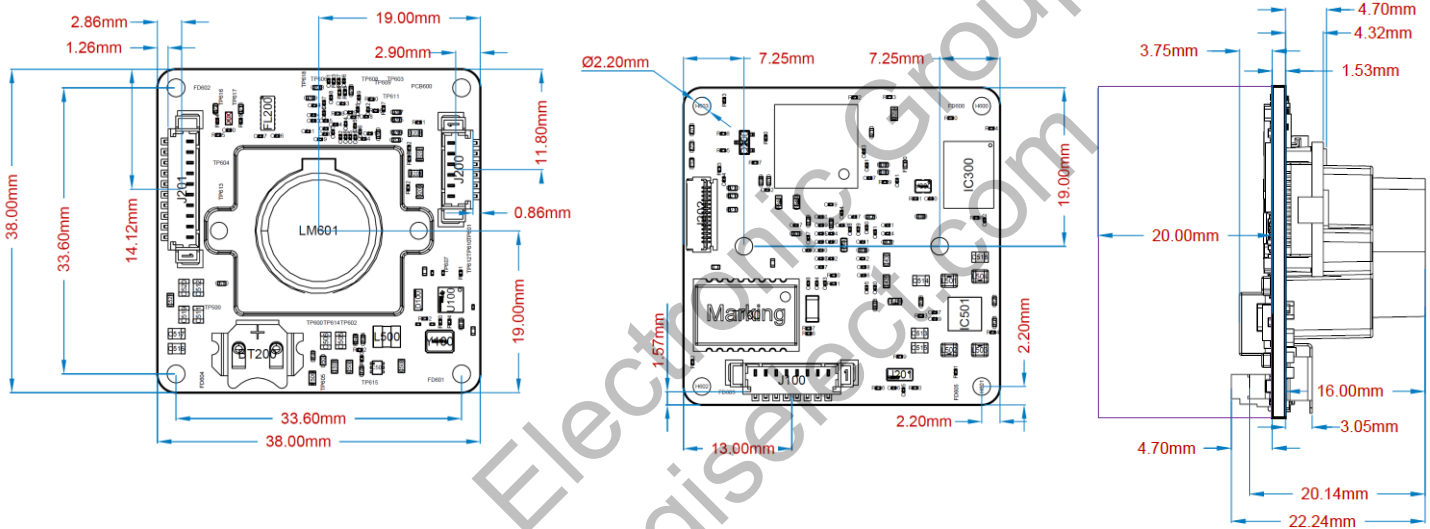
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## Mechanical

*Note: Camera Board Only*

Dimensions WxHxD	38 mm x 38 mm x 10 mm
Weight	9.5 g



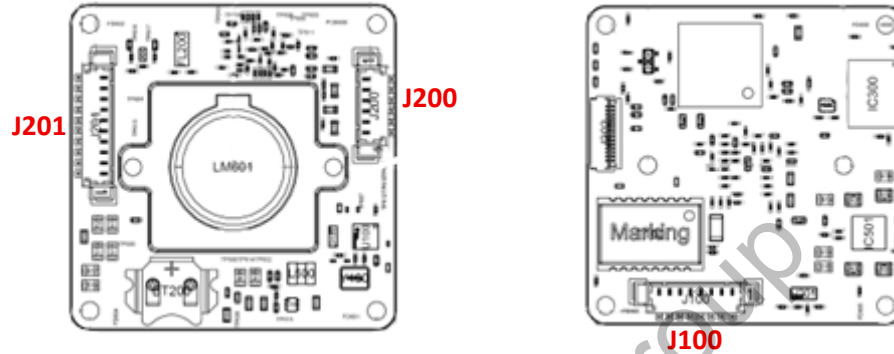
Aegis Electronic Group  
www.aegiselect.com



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## Connector(s)

Function	Ethernet + Power
Label	J100
Type/Mfg.	
P/N	
Mate P/N	
Pin 1	
Pin	Function
01	GND
02	VIN 12V
03	SHIELD
04	TX+
05	TX-
06	RX+
07	RX-
08	SHIELD

Function	SD-Card Header
Label	J201
Type/Mfg.	
P/N	
Mate P/N	
Pin 1	
Pin	Function
01	GND
02	3V3
03	3V3
04	GND
05	SDCARD-DATA2
06	GND
07	SDCARD-DATA3
08	GND
09	SDCARD-CMD
10	GND
11	SDCARD-CLOCK
12	GND
13	SDCARD-DATA0
14	GND
15	SDCARD-DATA1
16	GND
17	SDCARD-DETECT
18	GND

Function	GPIO Connector, Future Use
Label	P200
Type/Mfg.	
P/N	
Mate P/N	
Pin 1	
Pin	Function
01	GPIO 0
02	GPIO 1
03	GND
04	GPIO 3
05	GPIO 4
06	GND



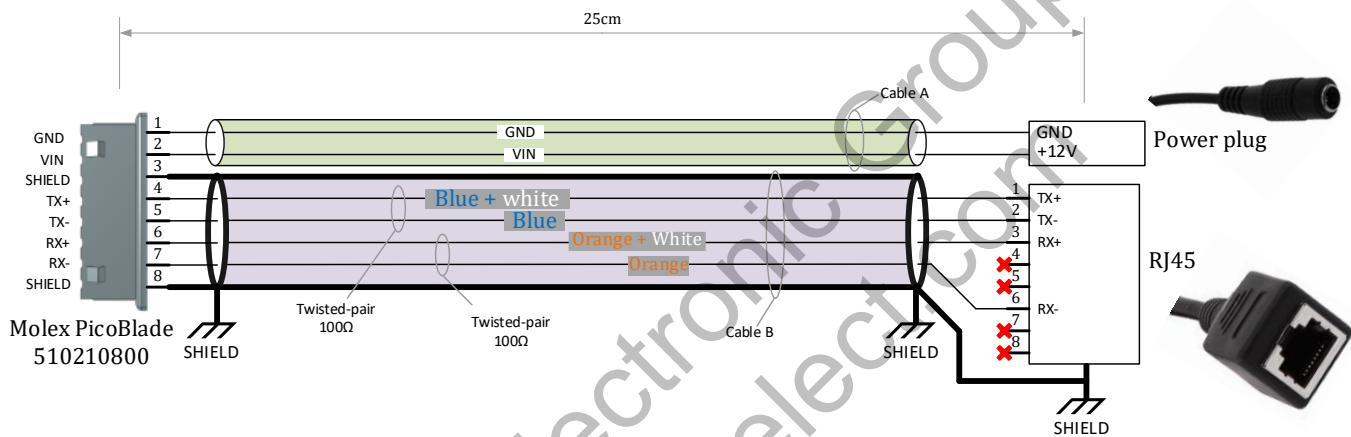
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## Cable(s)

Function	Ethernet & Power
Mfg.	Videology
P/N	60C5030



## Accessories

Part Number	Description
60C5030	Ethernet & Power Cable (Included)
72V5145	SD-Card Interface Board
72V5153	SD-Card Interface Board Cable



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