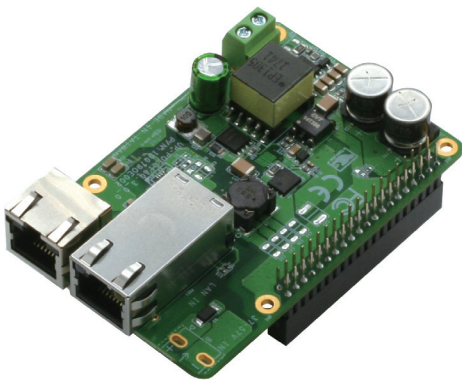
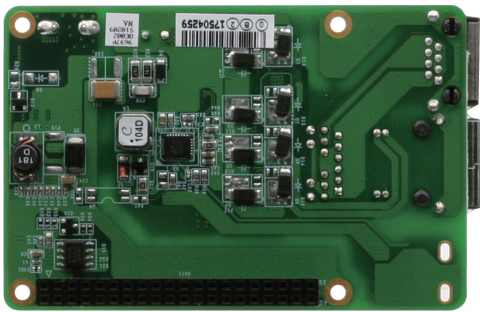
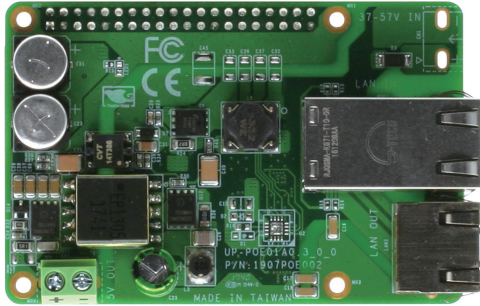


## PoE Ideal Diode Bridge & PD Forward/Flyback Controller



### Features

- IEEE802.3 AT Standard
- Max 25W Power Supply
- 10/100/1000 Mbps LAN
- RJ45 Input x 1
- RJ45 Output x 1
- 5V DC Output x 1



### Specifications

System	
IC	LT4321I (PoE Ideal Diode Bridge Controller) x 1 LT4276B (PD Forward / Flyback Controller) x 1
I/O Placements	
External Ports	RJ45 input x 1 RJ45 output x 1 5VDC output x 1
Internal connector	HAT 40 GPIO male (5V, GND) x 1
Others	
Form Factor	85.6mm x 56.5mm x 25mm
Certification	CE / FCC Class A
Operating Temperature	0°C ~ 60°C
OS Support	No OS limitation

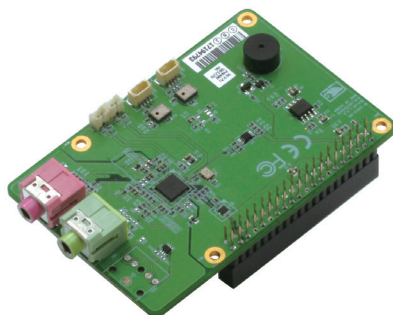
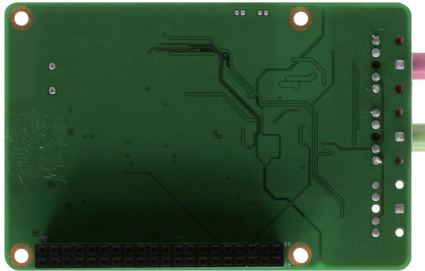
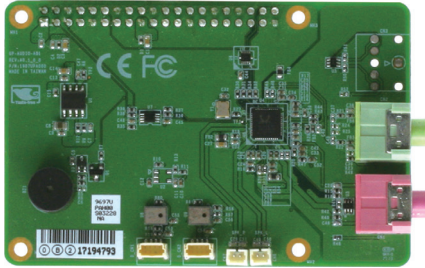
### Packing List

- UP-POE
- LAN cable

### Ordering Information

Part Number	Description
UP-POE-A20-0001	POE board

## Realtek Audio Board



### Features

- Realtek. ALC5672
- Line out x 1
- MIC x 1
- Speaker x 2
- D-MIC x 2
- Buzzer x 1



### Specifications

System	
IC	Realtek. ALC5672 x 1
I/O Placements	
External Ports	Line out x 1 MIC x 1
Internal connector	HAT 40 GPIO male (2 x I2C , 5 x I2S, 1 x PWM, 3V3, 5V, GND) x 1 Speaker x 2 D-MIC x 2 Buzzer x 1
Others	
Form Factor	85 mm x 56 mm
Certification	CE / FCC Class A
Operating Temperature	0°C ~ 60°C
OS Support	UP: WIN 10, Ubuntu 16.04.2, Android 6.X
Warning	To avoid resonance between D-MIC and speaker, please don't turn on "listen to this device".

### Packing List

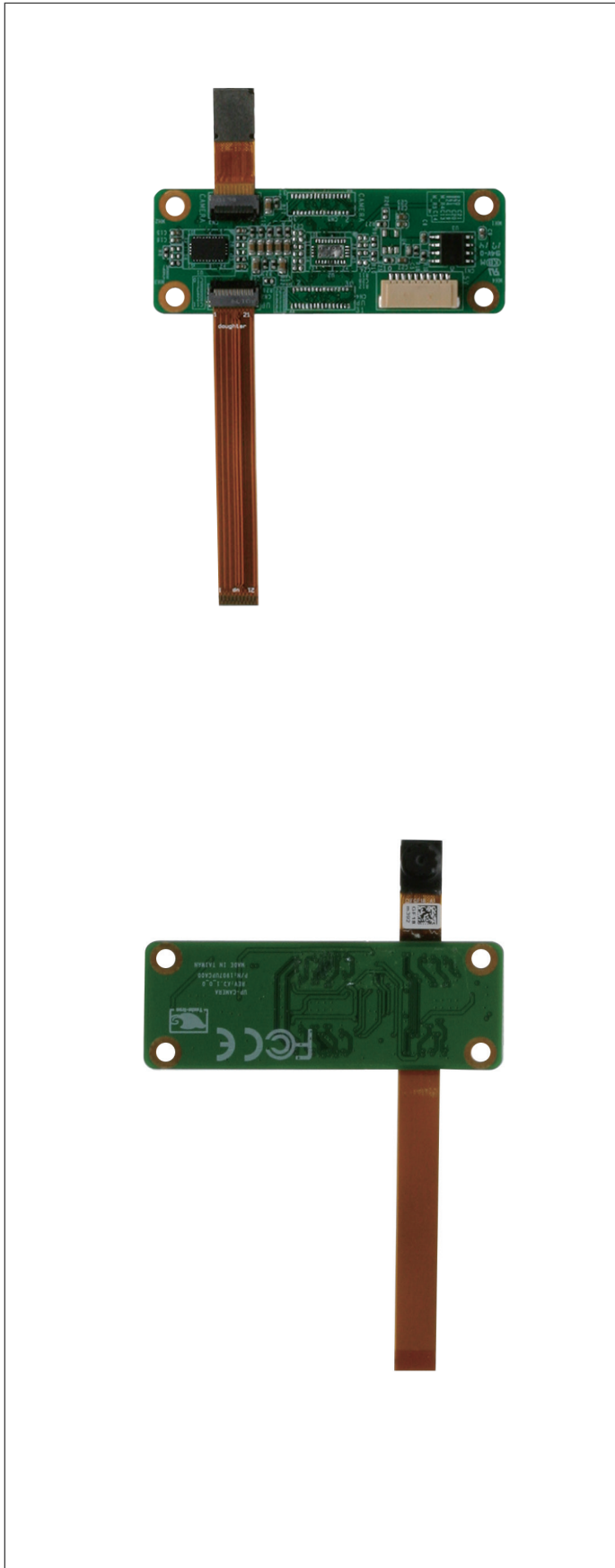
- UP-AUDIO

### Ordering Information

Part Number	Description
UP-AUDIO-A20-0001	Realtek Audio Board

# UP-CAMERA HAT

2M camera kit



## Features

- MIPI CSI-2/ DSI DPHY Re-timer x 2
- LDO Linear Regulator x 1
- 5V Power Connector x 1
- FPC/ FFC Connector x 2



## Specifications

System	
IC	MIPI CSI-2 / DSI DPHY Re-timer x 2 LDO Linear Regulator x 1
I/O Placements	
External Ports	5V power connector x 1 FPC / FFC connector for 2M camera x 2
Internal connector	None
Others	
Form Factor	10.2 mm x 56 mm x 1.6 mm
Certification	CE/FCC Class A
Operating Temperature	0°C ~ 60°C
OS Support	UP, UP2, UP Core: WIN10

## Packing List

- **UP-CAME**  
Chicony 2M Camera module, FPC cable, USB Y cable

## Ordering Information

Part Number	Description
UP-CAME-A20-2M01	2M camera kit