

# Internal Department or Context

## UP-POE

User Manual



**Revision:** 01

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## Revision History

The following table contains the information regarding the history and revisions of this living document.

| Version | Date        | Contributor | Changes Description |
|---------|-------------|-------------|---------------------|
| 01      | 10 Sep 2018 | Irene Lin   | Initial Creation    |
|         |             |             |                     |
|         |             |             |                     |
|         |             |             |                     |
|         |             |             |                     |

## Document Attributes

The following table contains the list of files that are associated with this living document.

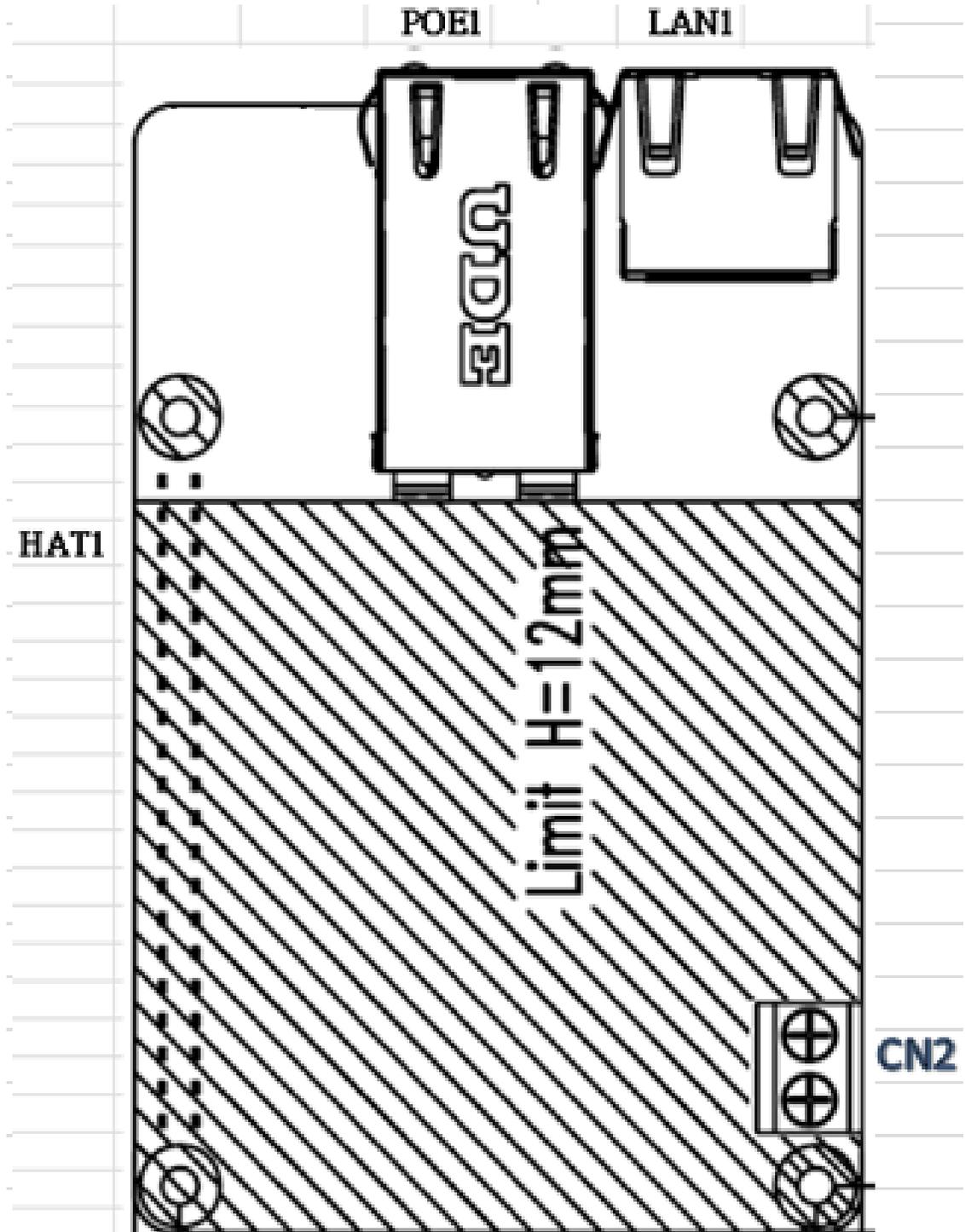
| Filename | Description |
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| N/A      |             |
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## 2 UP-POE01 Layout



## 3 Connector, Switch References

### 3.1 Connector Index

| Reference Designation | Functional Description     | Connector Type     |
|-----------------------|----------------------------|--------------------|
| HAT1                  | 5V OUT Header              | 22N8562-40SA2B-01G |
| POE1                  | Ethernet IN PUT Connector  | RT5-1640K22A       |
| LAN1                  | Ethernet OUT PUT Connector | 415CE41AS2A214A3   |
| CN2                   | DC OUT Connector           | DT-126VP-S2016002P |

## 4 Connector Pin Assignments

### 4.1 HAT1: 5V OUT Header

| Pin | Signal Description | Pin | Signal Description |
|-----|--------------------|-----|--------------------|
| 1   | NC                 | 2   | +5V                |
| 3   | NC                 | 4   | +5V                |
| 5   | NC                 | 6   | GND                |
| 7   | NC                 | 8   | NC                 |
| 9   | GND                | 10  | NC                 |
| 11  | NC                 | 12  | NC                 |
| 13  | NC                 | 14  | GND                |
| 15  | NC                 | 16  | NC                 |
| 17  | NC                 | 18  | NC                 |
| 19  | NC                 | 20  | GND                |
| 21  | NC                 | 22  | NC                 |
| 23  | NC                 | 24  | NC                 |
| 25  | GND                | 26  | NC                 |
| 27  | NC                 | 28  | NC                 |
| 29  | NC                 | 30  | GND                |
| 31  | NC                 | 32  | NC                 |
| 33  | NC                 | 34  | GND                |
| 35  | NC                 | 36  | NC                 |

|    |     |    |    |
|----|-----|----|----|
| 37 | NC  | 38 | NC |
| 39 | GND | 40 | NC |

#### 4.2 POE1: Ethernet IN PUT Connector

| Pin | Signal Description |
|-----|--------------------|
| 1   | TRP1+              |
| 2   | TRP1-              |
| 3   | TRP2+              |
| 4   | TRP2-              |
| 5   | TRP3+              |
| 6   | TRP3-              |
| 7   | TRP4+              |
| 8   | TRP4-              |

#### 4.3 LAN1: Ethernet OUT PUT Connector

| Pin | Signal Description |
|-----|--------------------|
| 1   | TRP1+              |
| 2   | TRP1-              |
| 3   | TRP2+              |
| 4   | TRP3+              |
| 5   | TRP3-              |
| 6   | TRP2-              |
| 7   | TRP4+              |
| 8   | TRP4-              |

## 4.4 CN2: DC OUT Connector

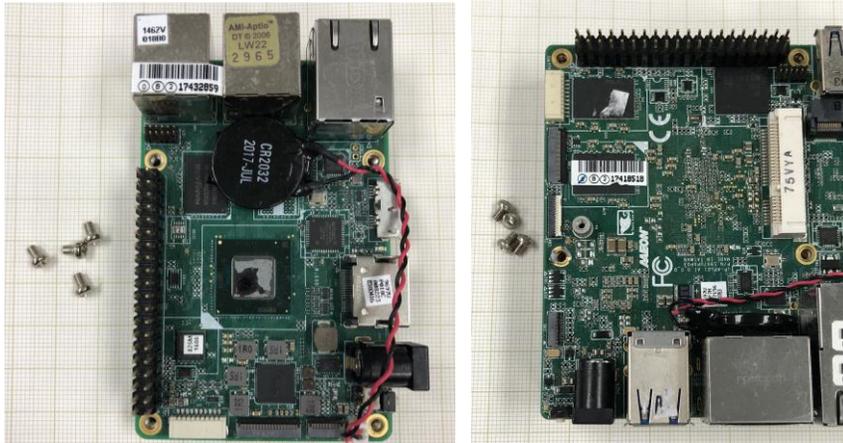
| Pin | Signal Description |
|-----|--------------------|
| 1   | AUX+               |
| 2   | GND_POWER          |

## 5 Quick install guide

1. Get ready with the POE board, main board and all accessories.



2. Take off the screws from your main board.



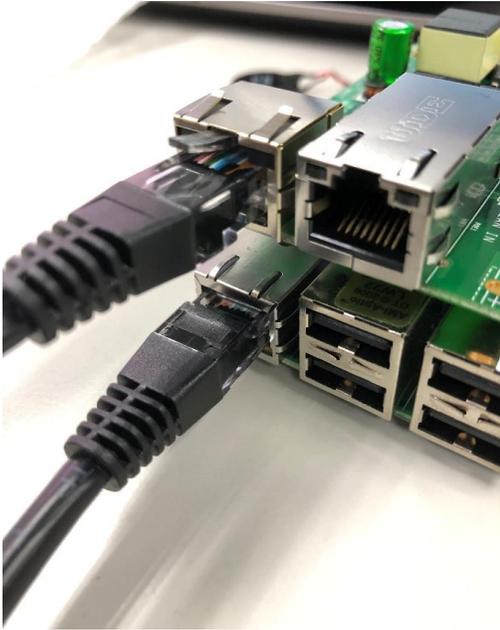
3. Fix the standoffs to your main board.



4. Connect UP/UP2 and POE board through 40PIN HAT.



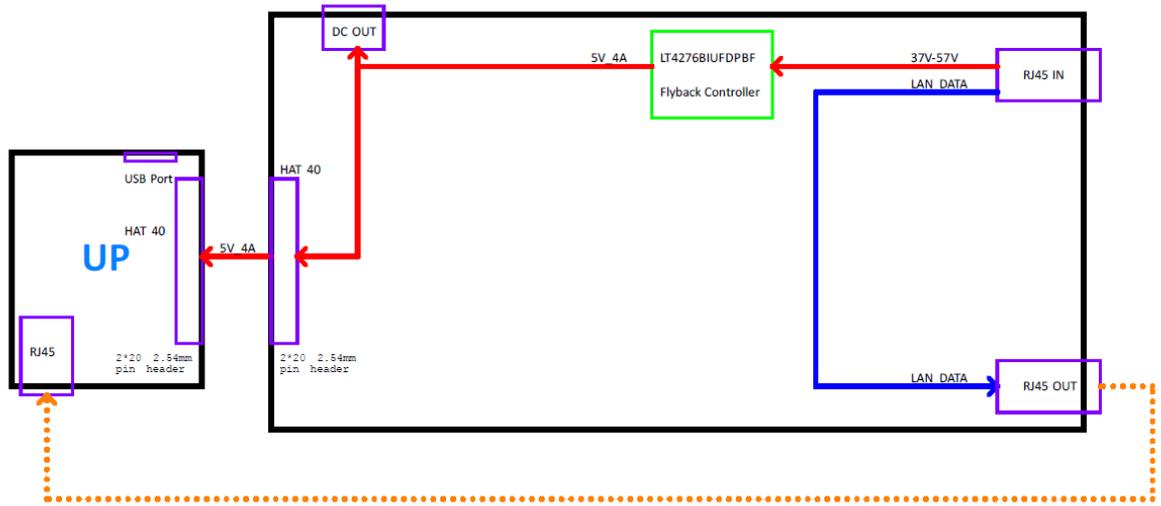
5. Connect LAN1 on PoE to LAN port on the MB with LAN cable in accessory kit.



6. Connect POE1 to your PSE device with another RJ45 cable.



7. PoE board will power your MB through 40PIN header and transmit LAN signal to your MB via LAN cable



\*Connect your PoE to other devices: Power your device through 5V DC OUT instead of 40PIN header.

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