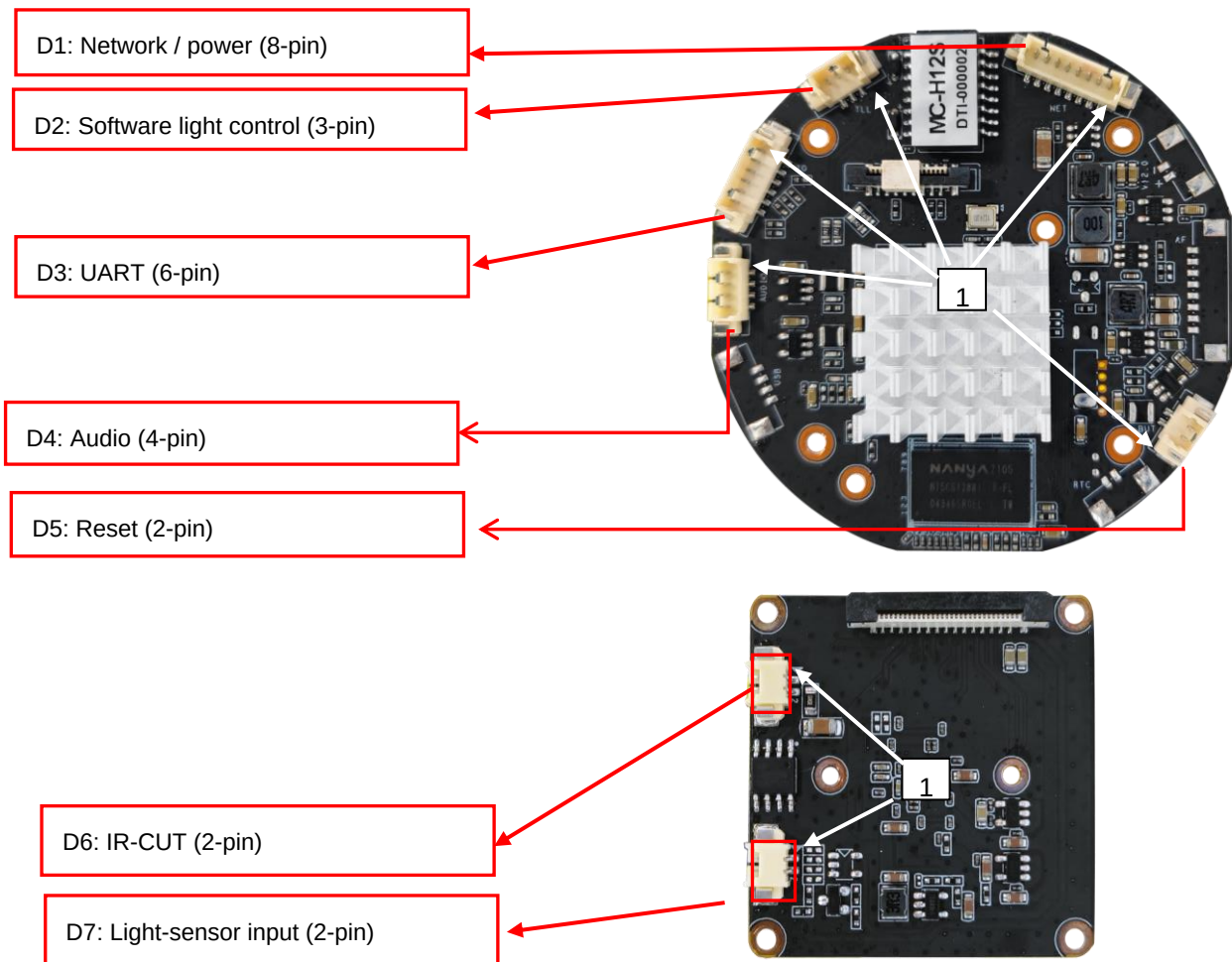


## MC-H12S Wiring Diagram



Note: White arrows indicate pin 1.

### Connector pin definitions

| Code | Interface function                     | No. | Pin definition | Pin function                         |
|------|----------------------------------------|-----|----------------|--------------------------------------|
| D1   | 8-pin network & power interface        | 1   | DC 12V+        | 12 V DC input                        |
|      |                                        | 2   | GND            | Ground                               |
|      |                                        | 3   | RJ45_6         | Ethernet RX differential signal, RJ6 |
|      |                                        | 4   | RJ45_3         | Ethernet RX differential signal, RJ3 |
|      |                                        | 5   | RJ45_2         | Ethernet TX differential signal, RJ2 |
|      |                                        | 6   | RJ45_1         | Ethernet TX differential signal, RJ1 |
|      |                                        | 7   | LED+           | Network link LED positive            |
|      |                                        | 8   | LED+           | Network status LED positive          |
| D2   | 3-pin software light-control interface | 1   | PWM0           | Software-controlled white light      |
|      |                                        | 2   | PWM1           | Software-controlled infrared light   |
|      |                                        | 3   | GND            | Ground                               |

|    |                                              |   |                |                                     |
|----|----------------------------------------------|---|----------------|-------------------------------------|
| D3 | 6-pin UART interface                         | 1 | GND            | Ground                              |
|    |                                              | 2 | AF_TX          | Autofocus interface                 |
|    |                                              | 3 | AF_RX          | NC                                  |
|    |                                              | 4 | AF_TX          | Reserved                            |
|    |                                              | 5 | AF_RX          | Reserved                            |
|    |                                              | 6 | SPK_EN         | Amplifier I/O                       |
| D4 | 4-pin audio interface                        | 1 | GND            | Ground                              |
|    |                                              | 2 | AUDIO_OUT      | External speaker                    |
|    |                                              | 3 | AUDIO_IN       | Active / passive microphone         |
|    |                                              | 4 | GND            | Ground                              |
| D5 | 2-pin reset interface                        | 1 | RESET          | Reset                               |
|    |                                              | 2 | GND            | Ground                              |
| D6 | 2-pin IR-CUT interface                       | 1 | IR-CUT control | Output                              |
|    |                                              | 2 | IR-CUT control | Output                              |
| D7 | 2-pin LED board light-sensor input interface | 1 | CDS_IN         | Infrared light control signal input |
|    |                                              | 2 | GND            | Ground                              |