



# V30 Pro

## **Sending Card**

### Specification V4.0



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## 1 Update Records

| Document Version | Hardware Version | Release Time      | Update Record |
|------------------|------------------|-------------------|---------------|
| V4.0             | V30 Pro (V1.1.2) | July 17(th), 2025 | First release |

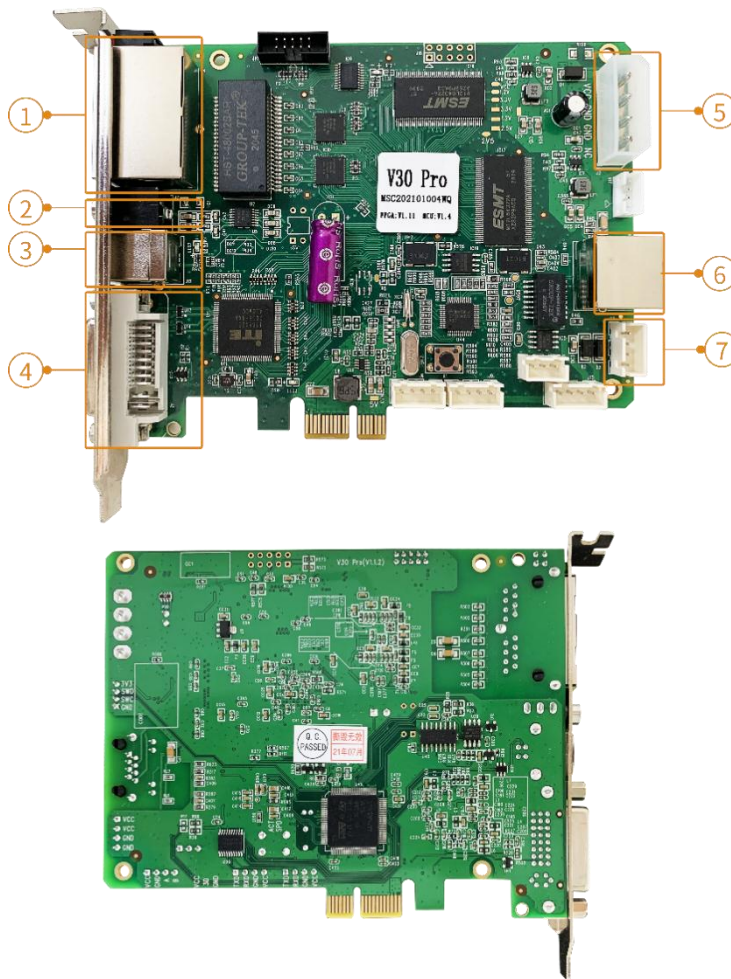
## 2 Product Introduction

V30 Pro is the Sending Card that produced by Mooncell, it supports 2 Network Output Ports. The maximum loading capacity could reach up to 1.3 million pixels, with powerful processing ability, super reliability and high cost performance.

## 3 Product Characteristics

- Support 1 channel DVI video signal input, synchronous transmission through network cable
- Support 1 AUDIO audio input, synchronous transmission through network cable
- Support 2 gigabit network port output, support up, down, left and right arbitrary splicing
- Support 1 USB interface communication, which can be controlled by multiple sending cards on the same PC
- Support 1 channel 100M network communication interface
- Support network port loop backup, dual master backup
- Support EDID management
- Compatible with 30HZ, 50HZ, 60HZ, 120HZ and other frame rate inputs
- Support the upper computer software to monitor the operating parameters and status of the sending card
- Support configuration parameter readback
- Support Gigabit network error bit rate detection
- Adopt PCI-E interface for greater versatility

## 4 Product Appearance



\*Product images are for reference only. The actual product shall prevail upon purchase.

### 4.1 Data Interface Illustration

| # | Name                  | Illustration                                                                                             |
|---|-----------------------|----------------------------------------------------------------------------------------------------------|
| 1 | Gigabit Ethernet port | 2 Gigabit network ports, single network port with 650,000 pixels; support inter-network port loop backup |
| 2 | Audio                 | 1 × 3.5mm audio input interface                                                                          |
| 3 | USB                   | 1 × USB (Type B): Connect to PC software communication                                                   |
| 4 | DVI                   | 1 × DVI video signal input interface: maximum support resolution 1920 × 1200@60HZ                        |
| 5 | DC power supply       | Standard 5.08mm socket, suitable for computer power supply                                               |
| 6 | LAN                   | 1 × LAN 100M network port signal                                                                         |
| 7 | DC power interface    | Standard 2.54mm socket for built-in video processor                                                      |

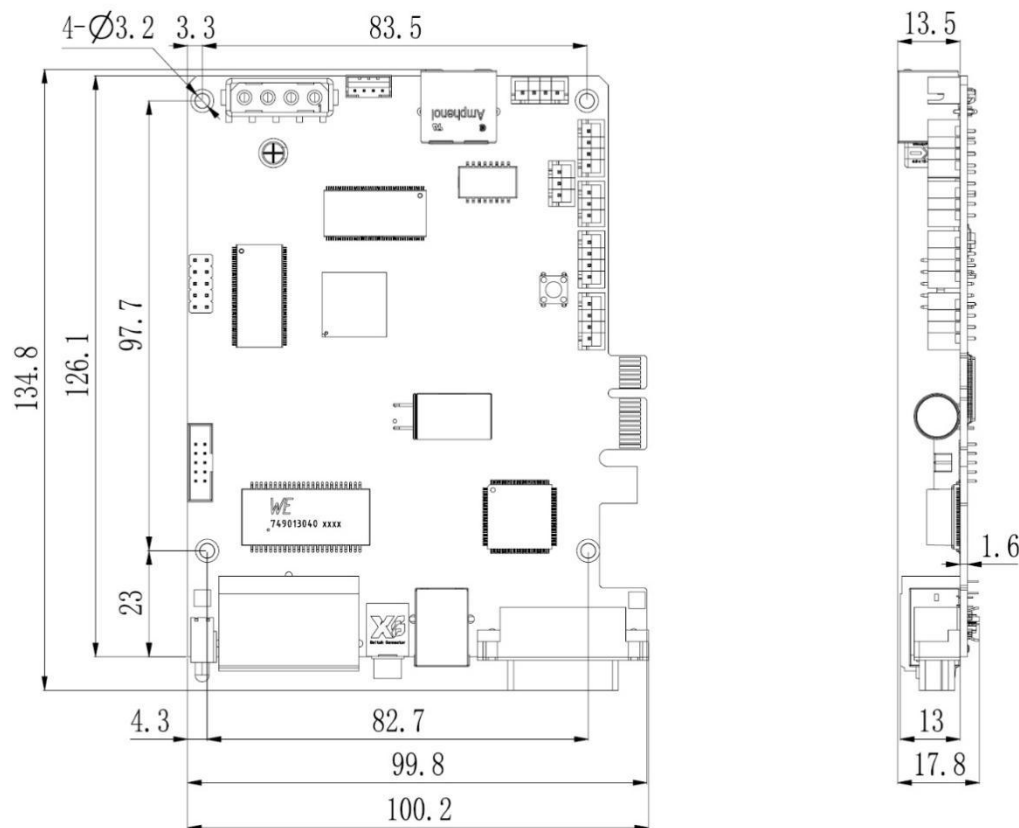
## J6 Interface Definition

| Definition | 1    | 2   | 3   | 4   |
|------------|------|-----|-----|-----|
| PIN        | PROG | GND | RXD | TXD |

## J10 Interface Definition

| Definition | PIN |    | Definition |
|------------|-----|----|------------|
| VAA        | 1   | 2  | GND        |
| P0LED      | 3   | 4  | P1LED      |
| DVILED     | 5   | 6  | USBLED     |
| RELAY1     | 7   | 8  | RELAY2     |
| GND        | 9   | 10 | VAA        |

## 4.2 Dimensions



Tolerance:  $\pm 0.3$  Unit: mm

### 4.3 Output Interface Definition

J6 Interface Definition

| Definition | 1    | 2   | 3   | 4   |
|------------|------|-----|-----|-----|
| Pin        | PROG | GND | RXD | TXD |

J10 Interface Definition

| Definition | Pin |    | Definition |
|------------|-----|----|------------|
| VAA        | 1   | 2  | GND        |
| P0LED      | 3   | 4  | P1LED      |
| DVILED     | 5   | 6  | USBLED     |
| RELAY1     | 7   | 8  | RELAY2     |
| GND        | 9   | 10 | VAA        |

## 5 Product Specification

### 5.1 Basic Parameters

|                  |                     |                                                                                     |
|------------------|---------------------|-------------------------------------------------------------------------------------|
| Loading capacity | Single network port | The maximum load is 655360 pixels, and the network port load is $1280 \times 512$ . |
|                  | Whole Unit          | 1.30 million Pixels                                                                 |
| load range       | Width               | 4096 pixels                                                                         |
|                  | Height              | 2048 pixels                                                                         |
| Offset           | Width               | 0 - 4095 pixels                                                                     |
| Range            | Height              | 0 - 2048 pixels                                                                     |

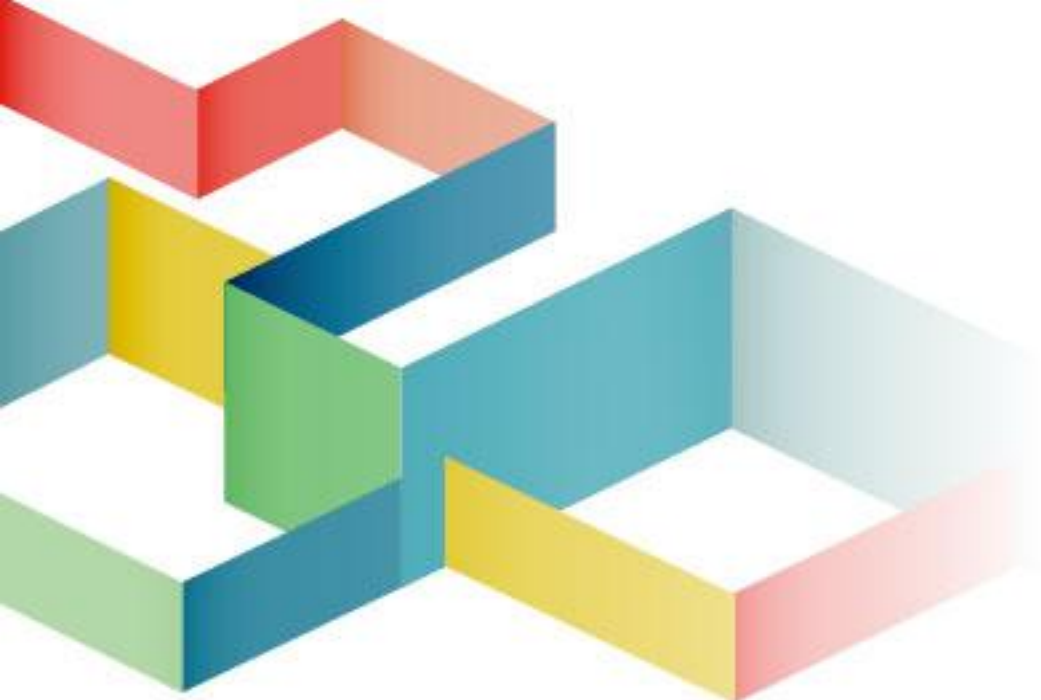
## 5.2 Specification

|                         |                                                  |                                  |
|-------------------------|--------------------------------------------------|----------------------------------|
| Electrical parameters   | Input voltage                                    | DC3.5~5.5V                       |
|                         | Rated current                                    | 0.6A                             |
|                         | Rated power                                      | 3W                               |
| Working environment     | Working temperature                              | -20°C~60°C                       |
|                         | Working humidity                                 | 10%RH~90%RH has no condensation. |
| Storage environment     | Temperature                                      | -20°C~70°C                       |
| Board size              | 100.2mm×134.8mm                                  |                                  |
| Net weight              | 108g Description: Weight of single card          |                                  |
| Outer packing size      | 225×178×70mm                                     |                                  |
| Gross weight of product | 411.5Kg Description: Including wire, accessories |                                  |
| Packing mode            | 100PCS /box                                      |                                  |
| Certificate Information | Comply with RoHS standards and CE-EMC standards. |                                  |

\*Current and power consumption may vary depending on factors such as product usage, environment, and settings.

## 7 Precautions

- High voltage hazard: This product operates at AC 100V~240V.
- Do not allow liquids or metal fragments and other conductive materials to enter the device, to prevent safety accidents.
- Please use the device in a dry and clean environment.



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