MIPI to IP Network Access Control Panel Board VRS-UD350

User Manual

Product Details:

The VRS-UD350 network access control panel board is suitable for the SONY FCB-EV9500M HD MIPI block camera module, connecting the camera through an extremely thin coaxial cable,and can output HD video signals through the network without camera configuration.

Key Features

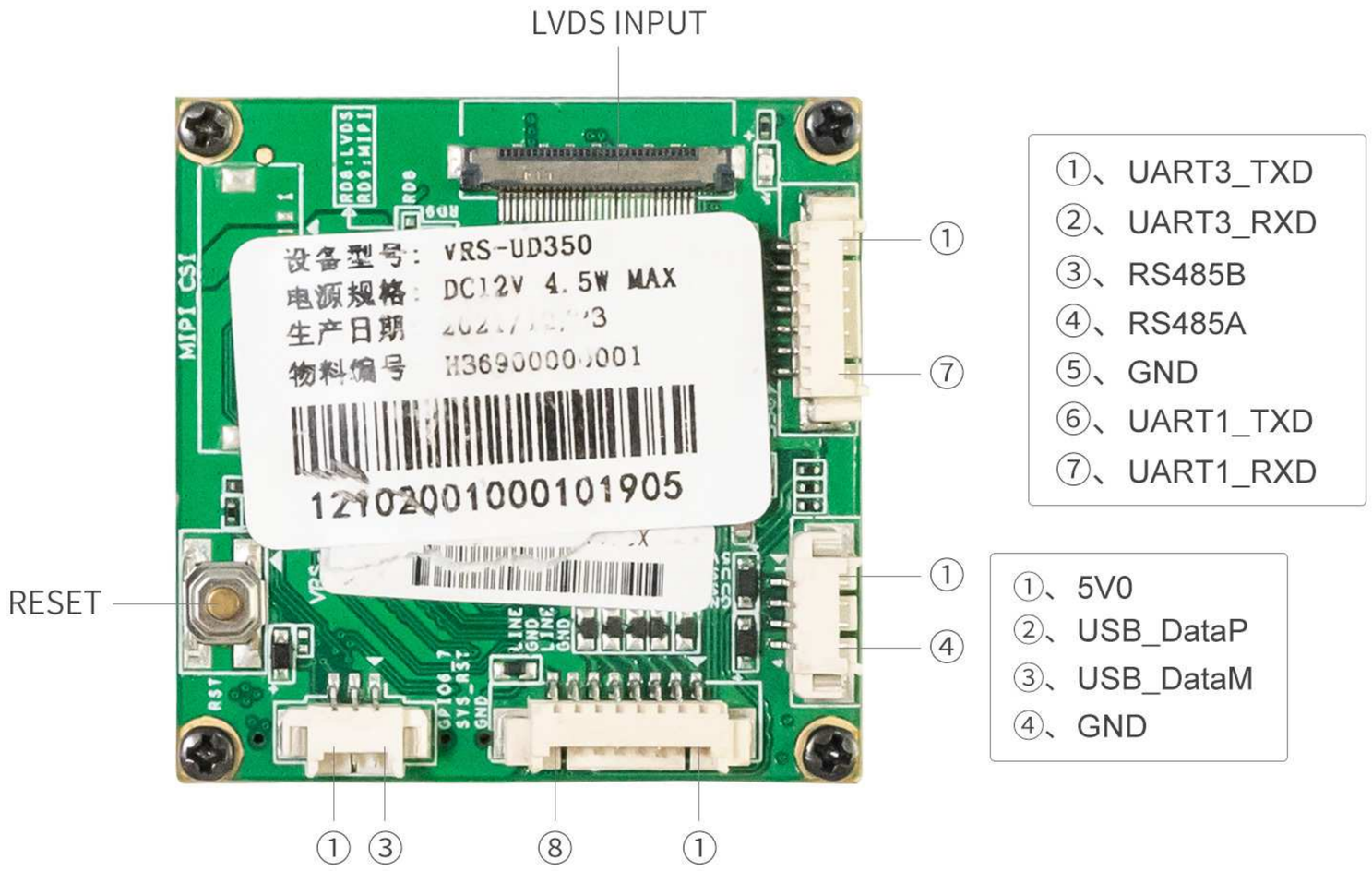
- Direct connected to the MIPI interface of SONY FCB-EV9500M camera, turn the camera video into a network video signal, and FCB series HD digital camera blocks can also be supported after modifying the hardware configuration through the jumper bit.
- Support network serial transmission, direct control of the camera through the network IE interface, or third-party devices (physical serial connection to the encoding board).
- With AI intelligent function, can realize face capture, license plate capture, human form recognition, license plate recognition, license plate recognition, cross-border detection, wandering detection, personnel focus detection and other intelligent functions (optional function)
- The maximum resolution is 2 megapixels (1920*1080), and the maximum output of full HD 1920*1080@60fps real-time images
- Support H.265/H.264/MJPEG video compression algorithm, support multi-level video quality configuration
- Support 1 audio input and 1 audio output

- Support WiFi, 4G function module extension
- Support a micro SD/SDHC/SDXC card storage up to 256GB
- Support ONVIF, GB / T28181
- Small factor, low power consumption, access to be embedded to speed dome and PTZ camera.

Specifications

Model No.	VRS-UD350
DSP	Embedded RTOS design, dual-core 32-bit DSP (HI3516DV300), pure hard compression
Resolution	Main streams:1920×1080,1280×720; Sub-streams:1920×1080,1280×720,704×576,640×480; The third streams: 1920×1080,1280×720,704×576,640×480;
Frame rate	Support 1080P60 1080P50 1080P30 1080P25 720P60 720P50 input
Video output interface	Network
Video processing	H.264 / H.265 Video encoding, support triple stream, code stream 500k to 32Mbps adjustable;
Audio interface	1 input, electrical level 2Vp-p, impedance 1kΩ, support pickup input, 1 output, impedance 16Ω,30mw output power, support connecting headset or power amplifier
Audio processing	G711 / AAC encoding, supports voice bidirectional, support noise reduction, automatic gain adjustment, high-frequency filtering, and echo cancellation
Network interface	One RJ45 Ethernet interface, 10 / 100 / 1000M adaptive, 8KV antistatic capability; support network protocol such as RTMP / RTSP / FTP / PPPOE / DHCP / DDNS / NTP / ONVIF / P2P, optional GB28181 protocol; one Ethernet communication indicator interface
Communication interface	One TTL UART interface to support the camera control.One 485 communication interface to support the PTZ control.
Alarm	Support 2-way input and output alarm and alarm linkage
Service function	Support Web configuration, support OSD, support real-time video transmission, support mobile detection and alarm linkage front-end storage, support front-end storage and playback / download, and support the central alert after mobile detection and alarm
TF interface	A TF card socket with a maximum support of 256G TF card storage
USB	One USB HOST / DEVICE interface for an expanded USB storage / WIFI / 4G interface
Dimensions&Weight	42×42×15mm, weight of approximately 24g, radiator thickness of 6mm, and weight of 1.5g
Power supply&voltage	DC12V power supply input, 2W power consumption, front-end power supply input lightning protection strike, anti-static electricity, anti-reverse connection, and support the 12V turn-off voltage protection

Product front wiring definition



◆ 1.7P power supply interface (Pin distance of 1.25MM)

①、UART3_RXD UART3_TXD is a TTL communication serial port (3.3V). After MCU, you can control the camera or send messages to the network.

②、The 485A and the 485B are the Pelco protocol communication interface, which is easy to connect with the speed dome and the PTZ camera.The default potter rate is 9,600, and the address code is 1.The UART1_RXD UART1_TXD is a reserved communication serial port

◆ 4P USB interface (Pin M. 1.25MM)

①、DC 5V power supply output.

②、The positive and negative data of the USB DP is the USB2.0 data communication line.

③、The GND is the ground end of the signal wire.

◆ 8P alarm signal and audio input and output interface (Pin distance of 1.25MM)

①、ALM_IN1 ALM_IN2 is the two signal interfaces for alarm input, and ALM_OUT1 ALM_OUT2 is the two signal interfaces for alarm output.

②、LINE_IN is an audio input interface that can take a power supply audio input device, and LINE_OUT is an audio output that can connect an audio system or other audio output device with a power supply.

◆ Reset key

①、When you forget the user password or disordered network Settings, you can press the reset button for 10 seconds to restore the network Settings to factory Settings. The default IP address is 192.168.0.123. The user name is admin. The password is set by the customer.

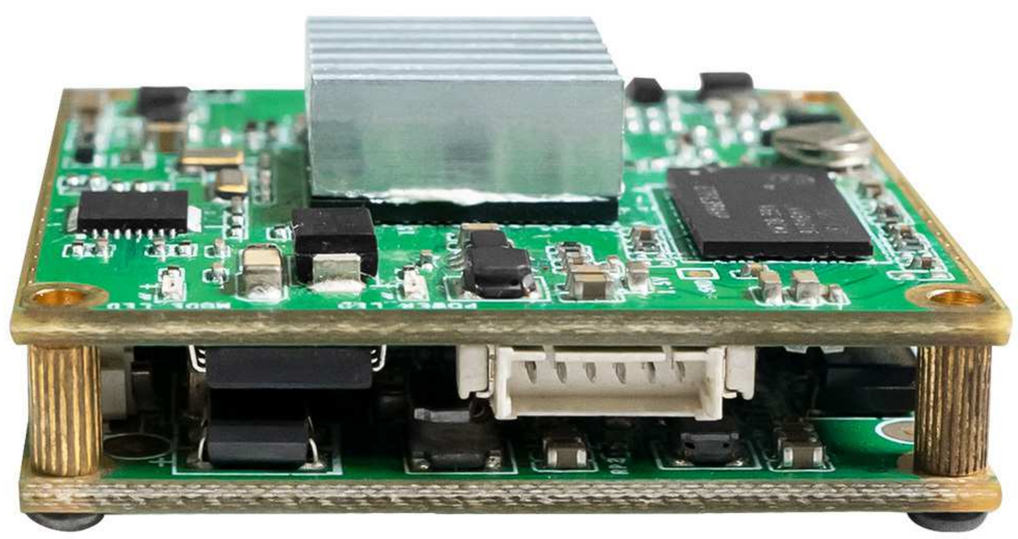
◆ 3P Interface (Pin distance from 1.25MM)

①、SYS-RST-N is the function of reset key. After the pin is lowered for 10S, it can be restored to factory status.GPIO6-7 is reserve IO port. GND is the ground end of the signal wire.

◆ LVDS interface

①、By modifying the hardware configuration, you can connect with the series 6 and the series 7 series cameras in the FCB serial cameras, and realize the network signal output of up to 1080P60.

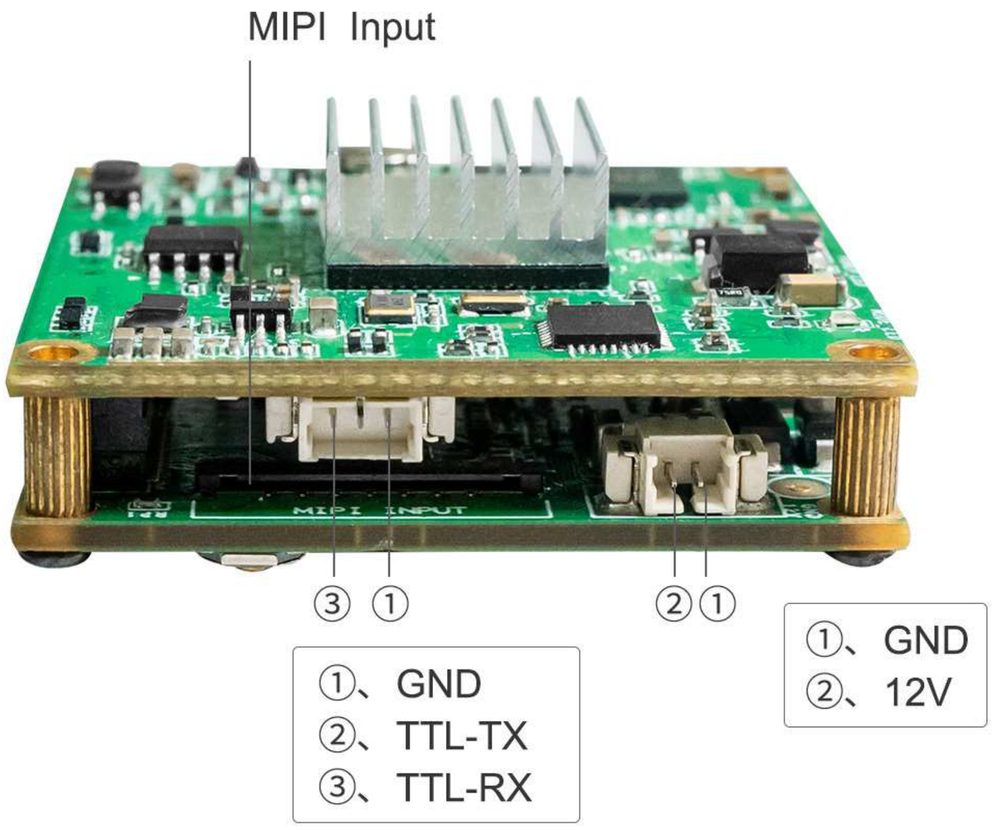
Product network wiring definition



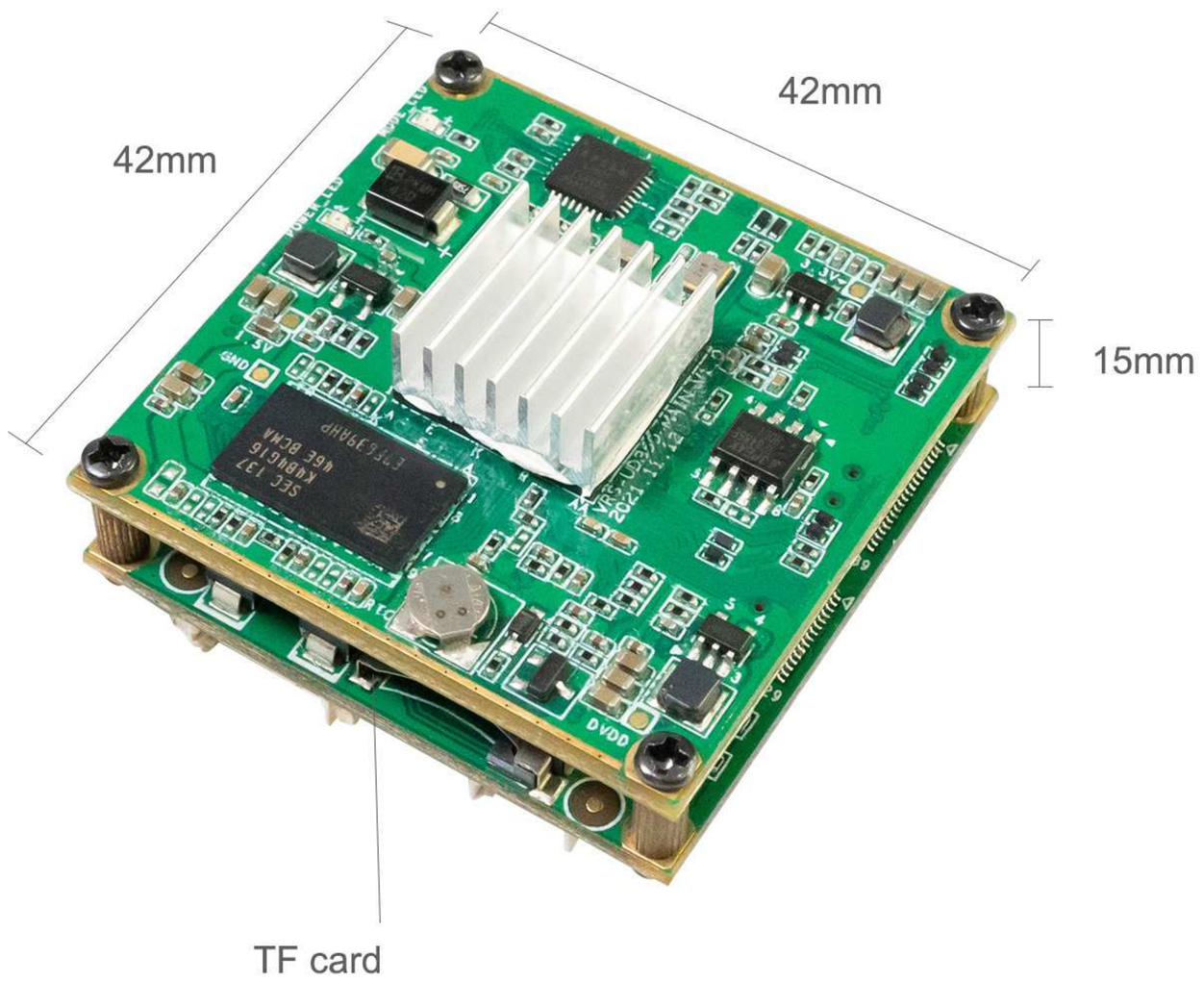
①、The ACT is the network data transmission indicator light, and the LINK is the networkconnection indicator light.

②、TX + and TX-is the network sends positive and negative poles, RX + and RX-is the networkreceives positive and negative poles.

Product power interface and MIPI definition

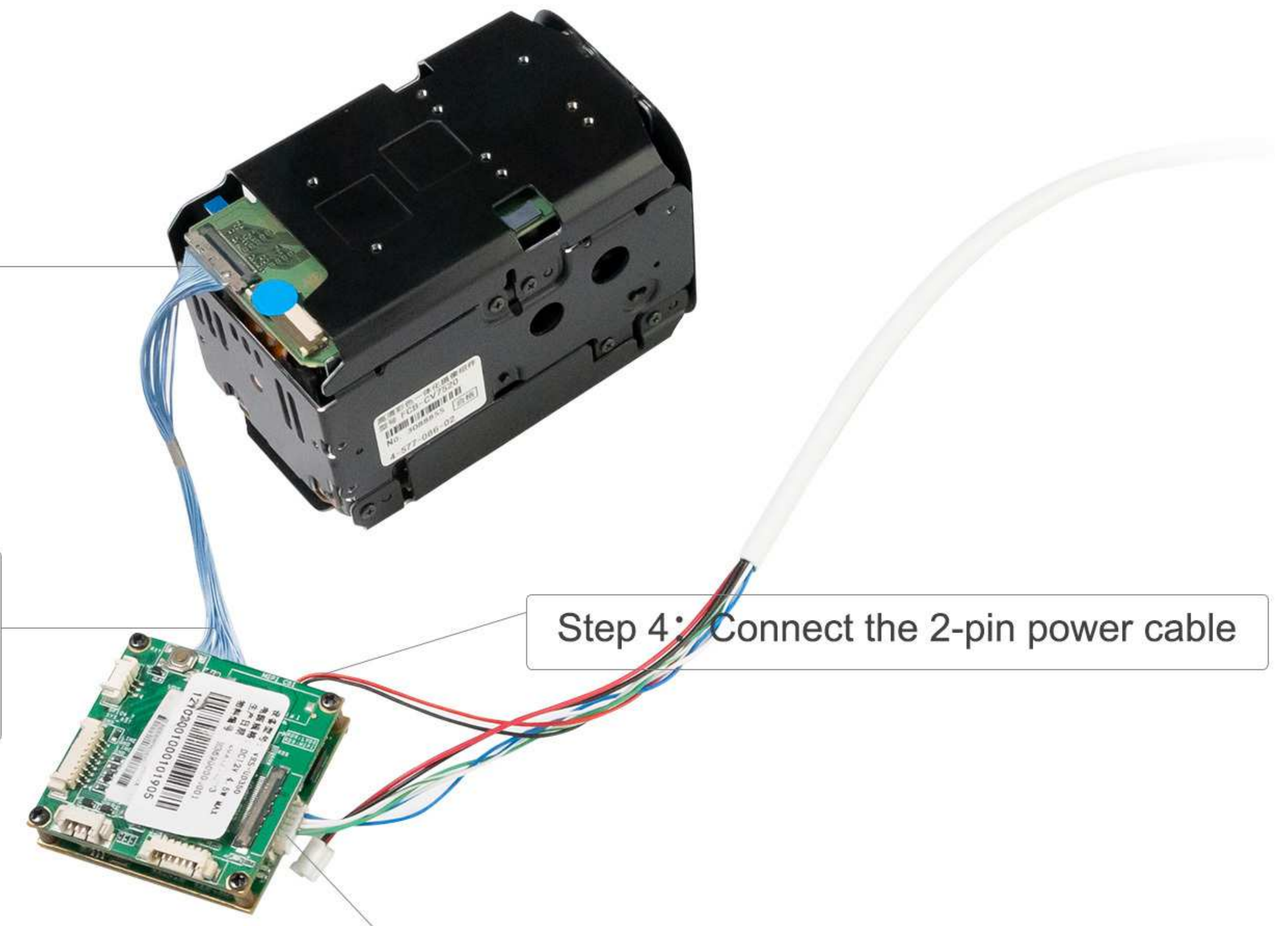


TF card position



- Size: 42mm * 42mm * 15 mm
- Net weight: 24gram

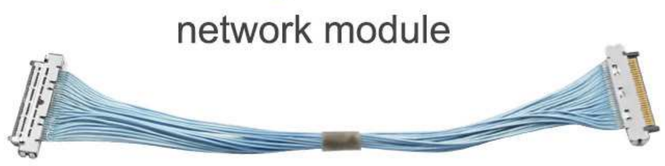
Wiring steps and methods



List of items

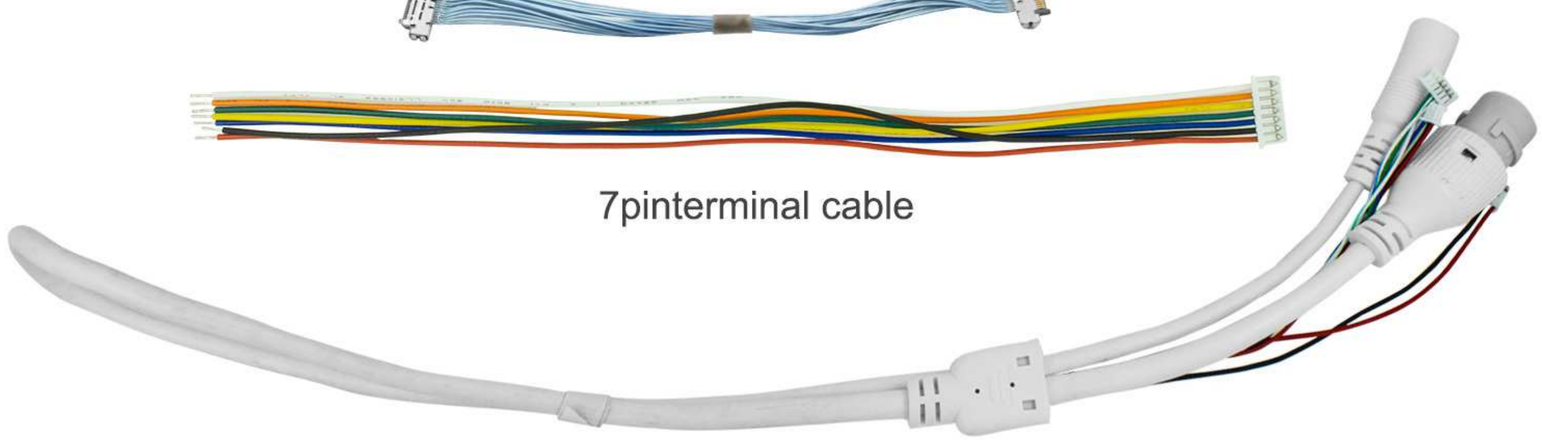
* One pcs of network module
* One pcs of 1.25MM*7pinterminal cable
* One LVDS cable
* IP power cable

network module



LVDS cable

7pinterminal cable



IP power cable

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