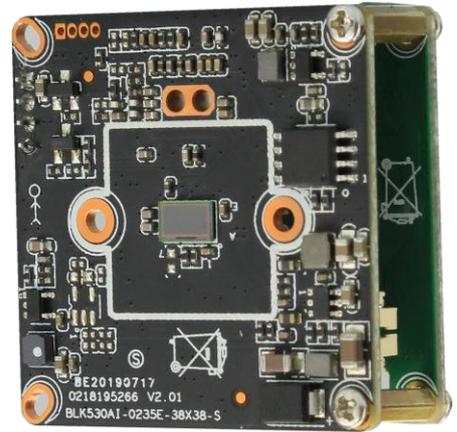


IPG-80X20PSD-WPNG

2.0M Wireline-WiFi IP camera Module

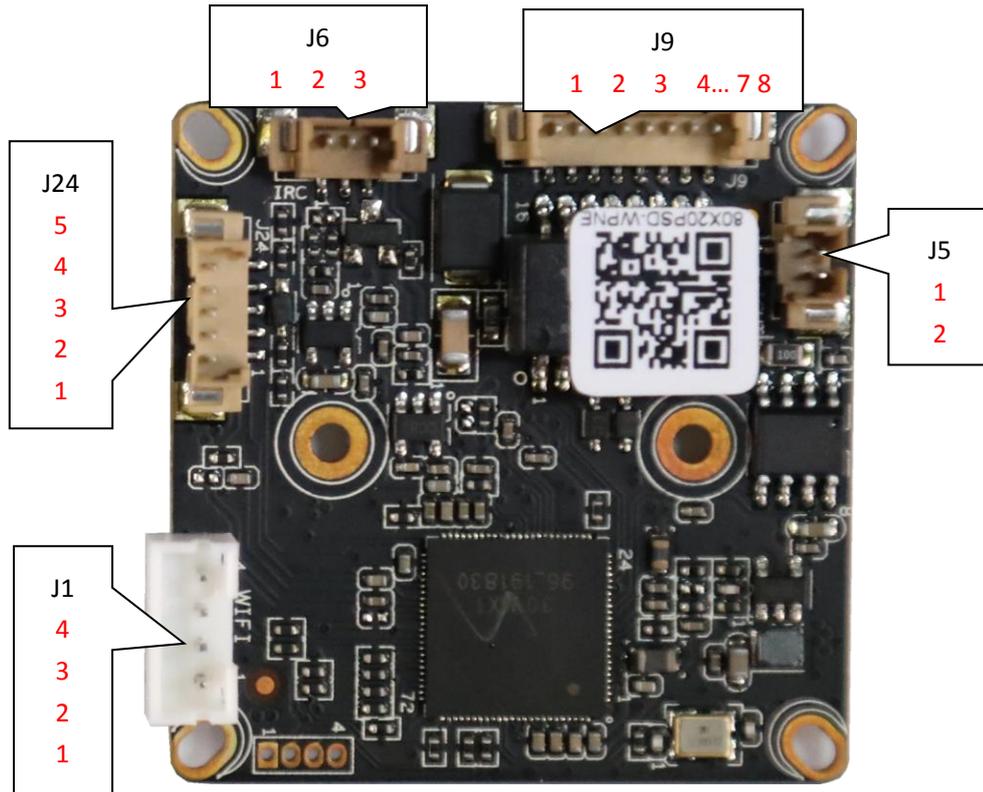
Features:

- Support 450m signal stable connection in open environment, excellent through wall performance
WiFi chip, strong anti-interference
- Supporting human detection and supports intelligent functions
- 2.0M resolution, clear and fine images;
- Support for wired and wireless connections
- Support 2D/3D noise reduction, digital wide dynamic;
- Advanced H.265+ video compression, Super low rate, high definition quality of image;
- Professional anti-lightning, conform to GB/T17626.5 and IEC61000-4-5.
- Support matching WIFI NVR board, recommend to cooperate with NBD8004RA-UWG NVR board to achieve 450m;

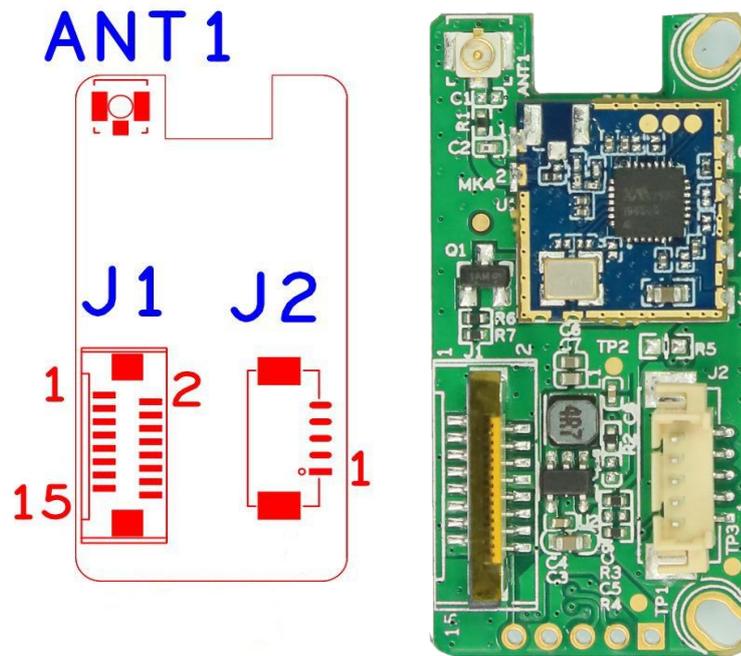


Parameters:

| | |
|-----------------------|---|
| Model | IPG-80X20PSD-WPNG |
| System structure | Embedded RTOS, dual-core 32-bit DSP (XM530AI), pure hard compression, watch dog |
| Sensor | 2.0M 1/3" SC2235E CMOS sensor, color 0.1Lux@F1.2, black/white 0.01Lux@F1.2 |
| Video compression | H.265+ coding, support dual stream, AVI; 0.1M~6Mbps variable |
| Image output | Main stream: 1920*1080@15fps; sub-stream: 640*360@15fps |
| Shutter | 1/50(1/60)s to 1/10,000s |
| Lens | N/A |
| Day and night | Support IR-CUT, IR-CUT coil has an internal resistance of 20 ohms, the power-on time is less than 200ma, and the voltage is 3.5V-6V |
| Noise reduction | Support 2D/3D |
| Wide dynamic | Support |
| Auto iris | N/A |
| Audio compression | G.711 standard compression, support two-way Bidirectional Talk, support for audio and video synchronization |
| Audio interface | 1ch input, level: 2Vp-p, impedance: 1kΩ, support sound pick-up input; 1ch output, impedance: 16Ω, 30mw, support microphone; |
| Network interface | 1 RJ45 Ethernet interface, 10/100M adaptive; Support for network protocols such as RTSP/FTP/PPPOE / DHCP/DDNS / NTP/UPnP |
| Extension interface | N/A |
| Singal interface | one IR-CUT interface |
| PTZ | N/A |
| Motor interface | N/A |
| Alarm I/O | 1/1 |
| WIFI interface | Supports 450 meters wireless connections |
| Reset interface | N/A |
| SD Card | N/A |
| Reliability | Comprehensive lightning protection, 7 * 24 hours 65 °C high temperature stable and reliable testing |
| Intelligence analysis | Supporting human detection and customizing other intelligent functions |
| Other function | Support IO alarm, front-end storage/playback/download, and center reminder and image linkage, support JPEG capture; perfect SDK; |
| ONVIF | Unsupport |
| Mobile monitoring | Unsupport |
| Power | DC5V-12V |
| Dimension | 38mm*38mm+38mm*19mm |
| Other | The drive voltage of the light board is at 3.3V |



| Socket | Specific No | Interface Description | Function | |
|--------|-------------|-----------------------|------------------------|--|
| J9 | 1 | LED0 | LED/PHY_AD0 | Connect the tail line of the camera module |
| | 2 | LED1 | LED/PHY_AD1 | |
| | 3 | ETHTX+ | Ethernet signal+ | |
| | 4 | ETHTX- | Ethernet signal- | |
| | 5 | ETHRX+ | Ethernet signal+ | |
| | 6 | ETHRX- | Ethernet signal- | |
| | 7 | GND | GND | |
| | 8 | 12V | 12V DC input | |
| J24 | 1 | AC_OUTL | AC_OUT | Audio&Alarm |
| | 2 | AC_INL/MICP | AC_IN | |
| | 3 | GND | GND | |
| | 4 | ALARM_IN1 | ALARM_GPIO | |
| | 5 | ALARM_OUT | ALARM_GPIO (Reserve) | |
| J1 | 1 | +5V WIFI | +5Voutput | WIFI/4G module |
| | 2 | USB_DN | USB data- | |
| | 3 | USB_DP | USB data+ | |
| | 4 | GND | GND | |
| J5 | 1 | IR_CUTA | IR-CUT A OUT | IR_CUT |
| | 2 | IR_CUTB | IR-CUT B OUT | |
| J6 | 1 | IR | Infrared input | Connect the camera lamp board |
| | 2 | GND | GND | |
| | 3 | PWM | PWM-OUT | |



| Socket | Specific No | Interface Description | Function |
|--------|-------------|-----------------------|------------------------------|
| J2 | 1 | GND | 5P1.25mm WIFI Expansion seat |
| | 2 | USB_DP | |
| | 3 | USB_DM | |
| | 4 | +5V | |
| | 5 | USB_CTRL | |
| J1 | 1 | NC | 16P FPC WIFI Expansion seat |
| | 2 | NC | |
| | 3 | NC | |
| | 4 | NC | |
| | 5 | NC | |
| | 6 | NC | |
| | 7 | NC | |
| | 8 | GND | |
| | 9 | NC | |
| | 10 | NC | |
| | 11 | GND | |
| | 12 | NC | |
| | 13 | USB_DM | |
| | 14 | USB_DP | |
| | 15 | +5V | |
| | 16 | USB_CTRL | |
| ANT1 | 1 | | IPEXAntenna interface |

PS: USB_CTRL is the power supply control pin of the WIFI module. Low level enables power supply.