



# iHC-3568JGW

Industrial 5G smart gateway

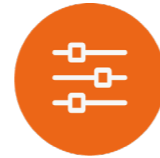


V1.2 2024-2-19

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# Product features



## Abundant expansion interfaces

2 \* RS485, 1 \* CAN, 3 \* RS232, 1 \* UART, 2 \* DIN (Opto-Coupling Isolation), 2 \* DOUT (relay interface), 1 \* HDMI



## Support for Openwrt system

It supports Openwrt system and multiple network protocols (HTTP/TCP/UDP/NETSHELL), which is suitable for IoT PLC data acquisition and control scenarios.



## Wide range of application scenarios

Industrial routing, IOT Internet of Things, smart meters, smart cities, smart factories, power collection, industrial automation, remote monitoring and other industrial fields.

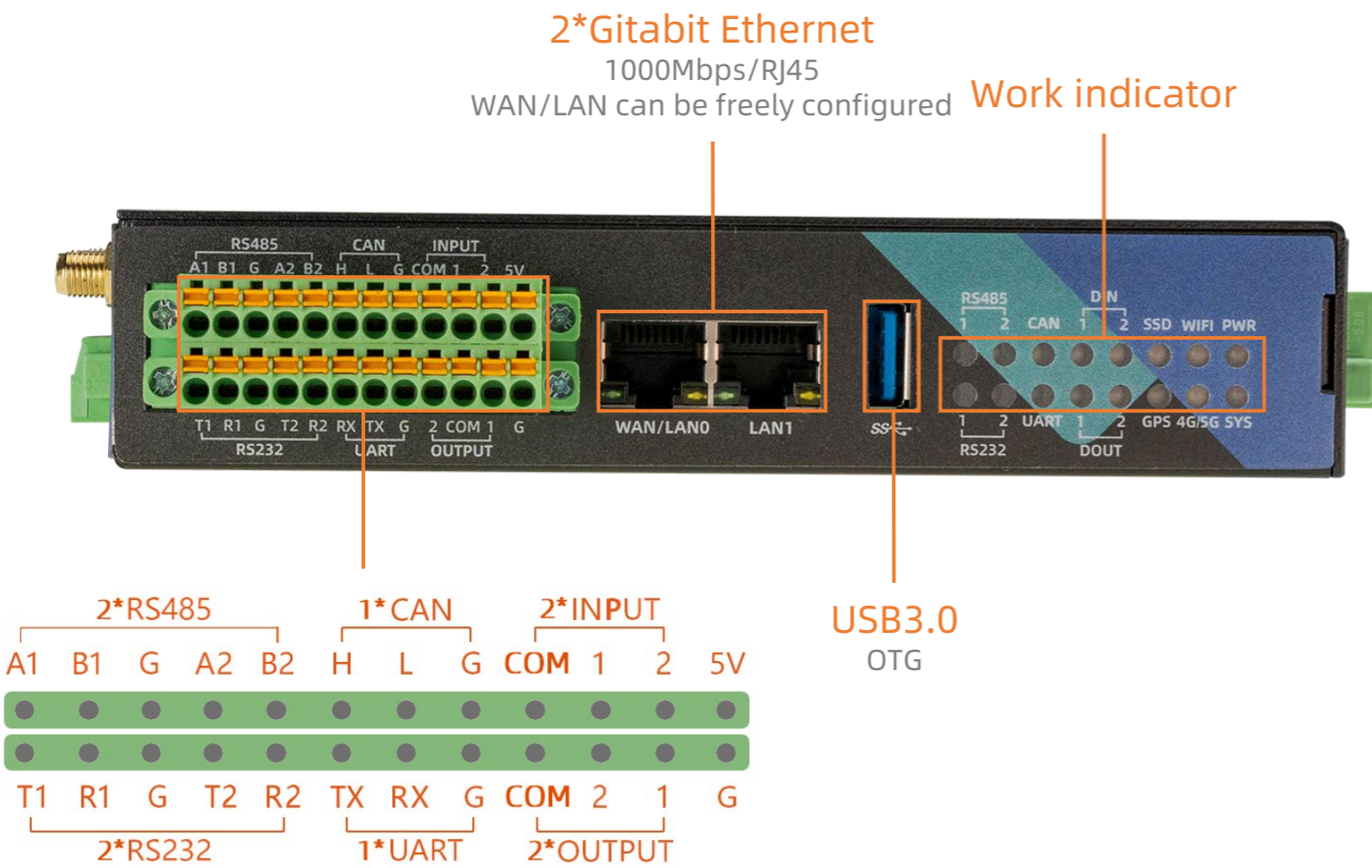
# Specifications



Type	Specification
SOC	RK3568J, Quad-core 64-bit Cortex-A55 processor, 22nm advanced technology, up to 1.4GHz
NPU	1Tops@INT8RKNN NPU AI Accelerator, supports One-click conversion of Caffe/TensorFlow/TFLite/ONNX/PyTorch/Keras/Darknet architecture models
VPU	4K@60fps H.265/H.264/VP9 video decoding, 1080P@60fps H.265/H.264 video encoding
Storage	LPDDR4 (2GB/4GB/8GB)
RAM	eMMC (8GB/16GB/32GB/64GB/128GB), SPI Flash (16MB)
Expand storage	1 * TF Card Slot, 1 * M.2 NMVe SSD (2242/2260/2280 optional)
Ethernet	2 * Gigabit Ethernet (1000Mbps / RJ45)
WiFi	2.4G WIFI, IEEE802.11b/g/n standard, BT5.0 (support BLE), 4G LTE Cat1 (Mini PCIe interface) (optional), 5G (M.2 interface) (optional)
GPS	Support GPS positioning (optional), field devices around the world can be real-time positioning, tracking, tracking, time calibration (synchronized in Coordinated Universal Time (UTC))
Display	1 * HDMI2.0 (4K@60fps)
USB	1 * USB3.0(OTG)
RTC	Support RTC
Watch Dogs	It supports watchdogs, and has the ability of automatic fault detection and automatic recovery
Interface	2 * RS485, 3 * RS232, 1 * CAN, 1 * UART, 2 * DIN (Opto-Coupled Isolated I/O), 2 * DOUT (Relay Interface)
Keystroke	1 * Reset key
Power	DC 12V (Wide voltage 9V~36V, 3Pin-5.08mm Phoenix Terminal)
System	OpenWRT
Network protocols	It supports multiple network protocols (HTTP/TCP/UDP/WEBSOCKET) and is suitable for IoT PLC data acquisition and control scenarios
Power consumption	MAX:8.4W(12V/700mA) Normal:3.6W(12V/300mA)
Size	151.15mm * 110.15mm * 31.65mm
Weight	≈ 610 g
Environment	Operating Temperature:-35°C ~ 75°C, Operating Humidity:93%±3%(non-condensing)



# Interface description



DC 9-36V wide voltage input  
3Pin-5.08mm phoenix terminal

WiFi antennas GPS antenna



TF-Card  
SIM Card

**Reset key**

Short press (less than 5 seconds), the device will restart;  
Press and hold for about 5 seconds, and the device will restore the default web login password;  
Press and hold for about 10 seconds, and the device will factory reset and restart;  
Press and hold for about 15 seconds, and the device does not perform any recovery operations;

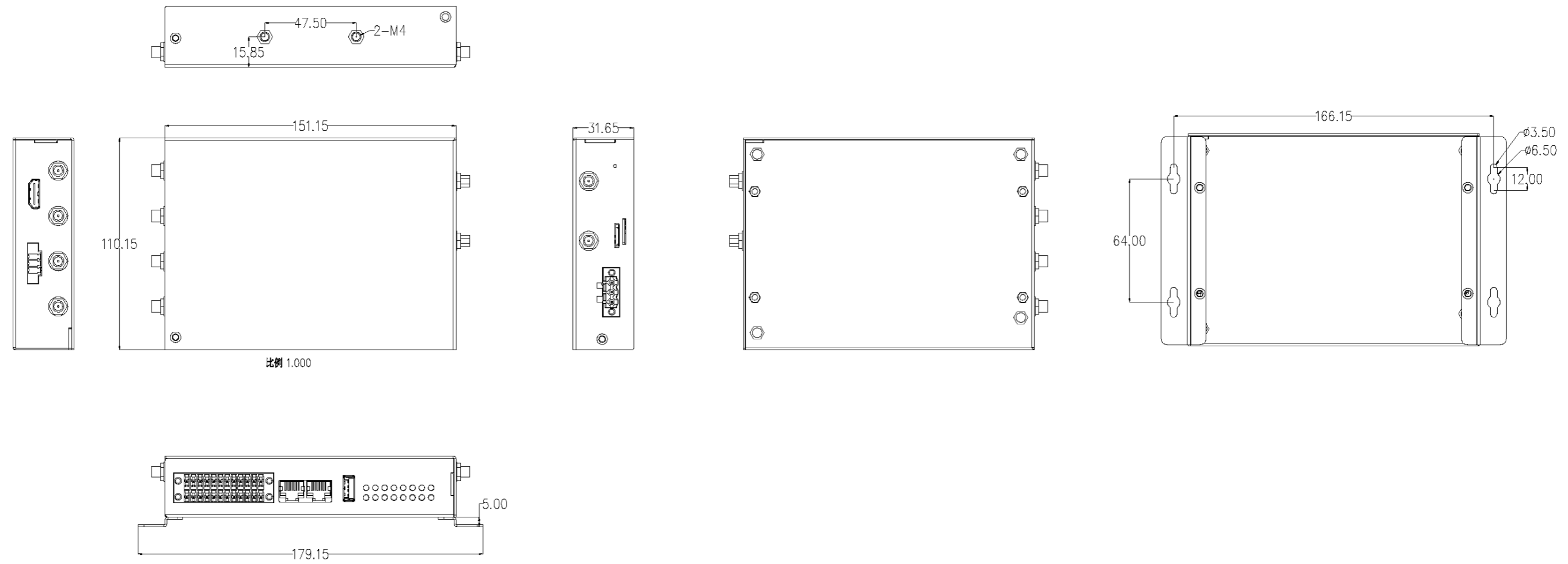
4G/5G antennas 5G antennas



HDMI2.0  
4K@60fps

RS232

# Dimension





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