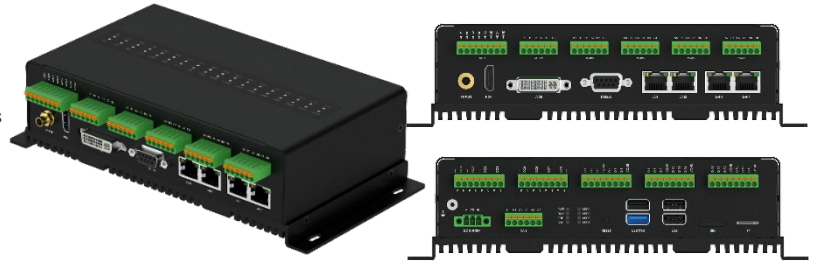


ABOX-3906

- Multi functional industrial BOXPC
- Rockchip RK3568J

■ Features

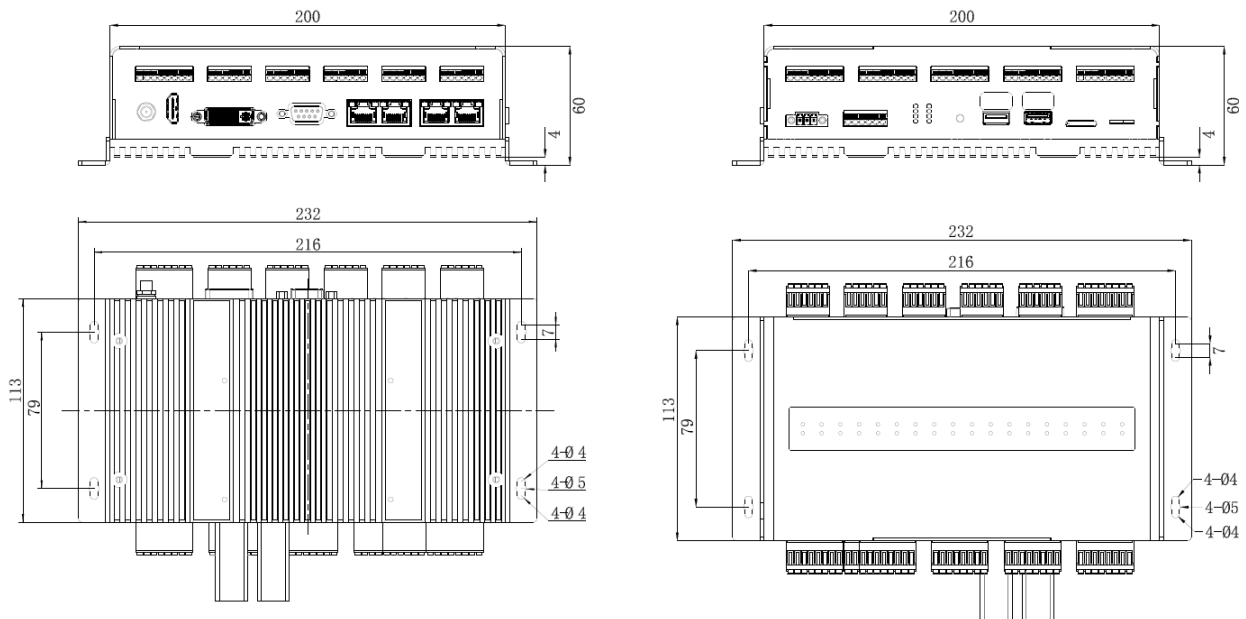
- RK3568J Industrial Wide Temperature CPU
- Rich I/O interfaces with DIO and serial port indicator lights
- Support 9-36V DC power supply
- Fanless design, supporting bracket and rail installation
- Wide operating temperature -40 ~ 80°C supported



■ Specifications

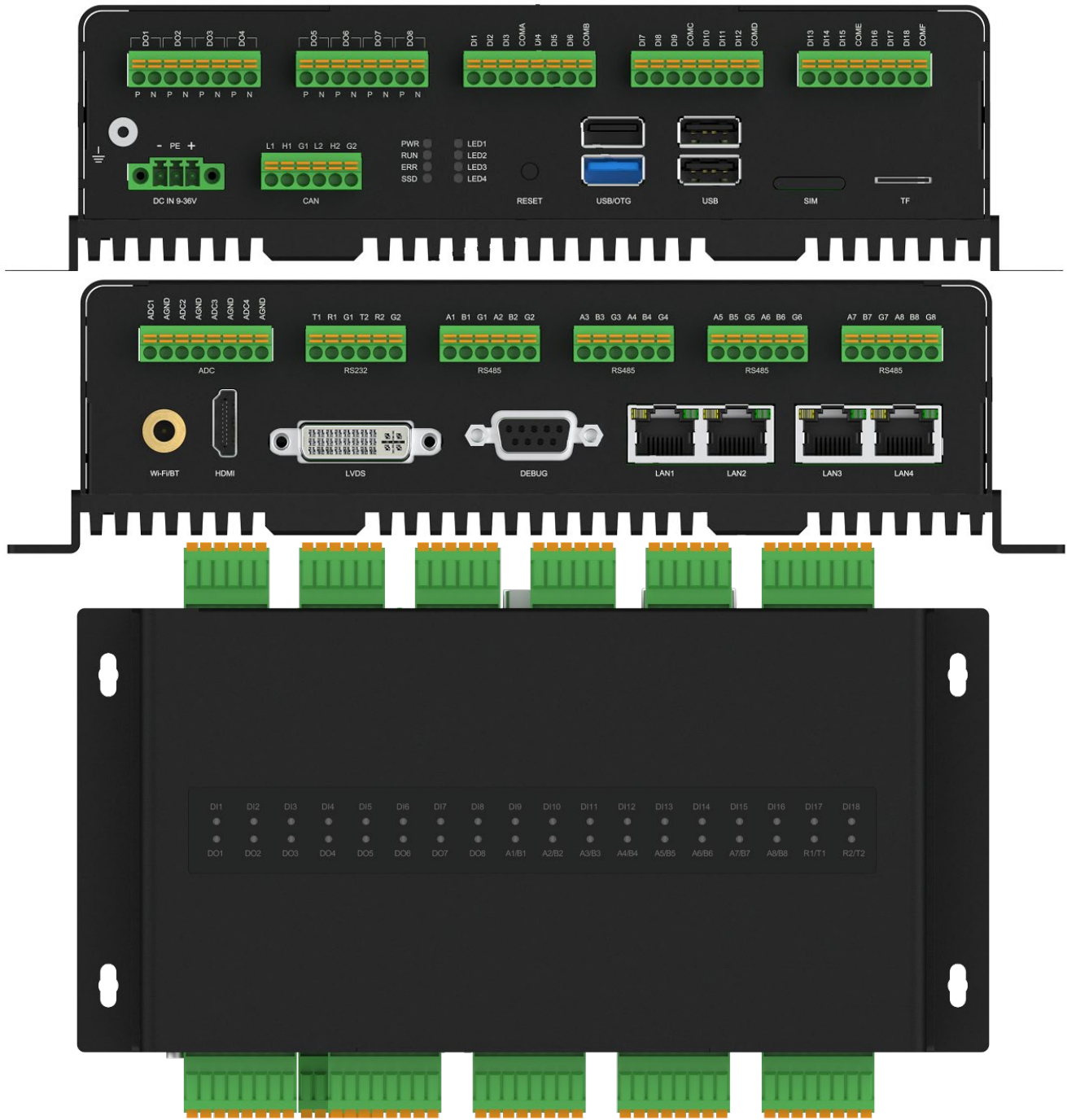
Model Name		ABOX-3906
CPU	CPU	Rockchip RK3568J Quad-core Cortex-A55 up to 1.4GHz
	GPU/NPU	G52 GPU / 1ToPS
Memory	Type capacity	Onboard LPDDR4 4GB/8GB
Storage	eMMC	Onboard 32GB/64GB eMMC
	TF	1 x TF card slot, supporting storage expansion
	M.2	1 x M.2 2242 key supports SSD, max up to 512GB
I/O	Network	4 x 10/100/1000Mbps RJ-45 Ethernet Interface
		On board 2.4G/5G Wi-Fi, support Wi-Fi 802.11 a/b/g/n/ac protocol +Bluetooth 5.0
		1 x Mini-PCIe slot, support LTE 4G/5G modules (Optional)
	USB	3 x USB2.0 , 1 x USB3.0 (OTG multiplexing)
	COM	8 x RS485 (2-wire with isolation), 2 x RS232 (2-wire with isolation), 1 x Debug interface (RS232 DB9)
	CAN	2 x CAN-Bus interfaces
	DIO	18 x DI optocoupler input, (12 dry contacts, 6 wet contacts) 8 x DO relay isolation, normally open, contact resistive load 3A/5A 250VAC/30VDC
	ADC	4x ADC (isolation) 0~10V
	SIM	1 x Micro SIM card slot (with card holder)
	LED	1 x RUN System LED (Lit green), 1 x Power LED (Lit green), 1 x ERR system error LED (Lit red) 1 x SSD HDD LED(Lit blue), 4 x Programmable LED(Lit green) 8 x RS485, 2 x RS232 LED (Lit green when transmitting data) 18 x DI LED (receive high-level light, lit green), 8 x DO LED (output high-level lit green)
	Display	1 x HDMI interface, supporting up to 4K (3840 * 2160) output 1 x DVI-I (24 bit single channel LVDS)
	Key	1 x Reset (hidden) , U-boot reuse
OS	Linux	Debian 11、Ubuntu 20.04
Power Supply	Voltage Input	DC 9~36V ±10%, overcurrent, overvoltage and polarity inverse protection
	Power Consumption	≤20Watt
Chassis	Structure	Aluminum-magnesium alloy BOX , fanless design , Wall-mounted or DIN-Rail fixing style
	Dimensions	232mm x 113mm x 60mm
	Net Weight	2kg
Environment	Work Temperature	-40 ~ 80°C
	Storage Temperature	-40 ~ 85°C
	Relative Humidity	5~95% @40° (non-condensing)
	Operating Vibration	SSD applied:1.5Grms,IEC 60068-2-64,random,5~500Hz,1 hr/axis
	Operating Shock	20G peak acceleration(11ms duration) with SSD, Follow IEC60068-2-27
	EMC	CE/FCC Class A

■ Dimensions (Unit: mm) :



Note: If some optional parts are offered with the system, additional system certificates may be required in certain regions/countries.
Please contact NODKA for certificate compliance.

■ Interfaces



■ Ordering Information

Part No.	Product	Description
B83.A3907.3J.0001	ABOX-3906-4G32-3568J	RK3568J, 4GB memory, 32GB eMMC, DC IN 9~36V, 4 x GLAN 1 x 2.4G/5G Wi-Fi/BT 1 x Mini-PCIEe support LTE 4G/5G, 8 x RS485 2 x RS232 2 x CAN 18 x DI 8 x DO 4 x ADC (isolation), 3 x USB2.0 1 x USB3.0, Operation temperature -40~80°C
B83.A3906.3J.0001	ABOX-3906-8G64-3568J	RK3568J, 8GB memory, 64GB eMMC, DC IN 9~36V, 4 x GLAN 1 x 2.4G/5G Wi-Fi/BT 1 x Mini-PCIEe support LTE 4G/5G, 8 x RS485 2 x RS232 2 x CAN 18 x DI 8 x DO 4 x ADC (isolation), 3 x USB2.0 1 x USB3.0, Operation temperature -40~80°C

■ Options

Parts	Description
Power adapter	KPL-040F-v1 40W adapter kit, DC out 12V, with national standard power cord
Wi-Fi external antenna	Glue stick antenna, suction cup 3M antenna
M.2 2242 SATA SSD	128GB, 256GB, 512GB
SATA 3.0 SSD	128GB, 256GB, 512GB, 1TB
4G/5G Module kit	mini PCIE, Quectel EC20, Quectel_RG200U