



Smart 3000

AI BOX edge intelligent terminal



Overview

Smart 3000 AI BOX is a powerful and stable edge intelligent terminal equipped with an AI intelligent processing chip and embedded with mature algorithms based on deep learning. Smart 3000 AI BOX is paired with Hongdian self-developed OSDT system and integrated with Hongdian self-developed AI algorithm model, and can be widely used in scenarios such as smart power, smart transportation, smart construction, smart gas, etc.

Highlights



**Rk3588 high-performance chip
with 6T computing power**



**Support RJ45, RS232, RS485, CAN,
HDMI and other interfaces**

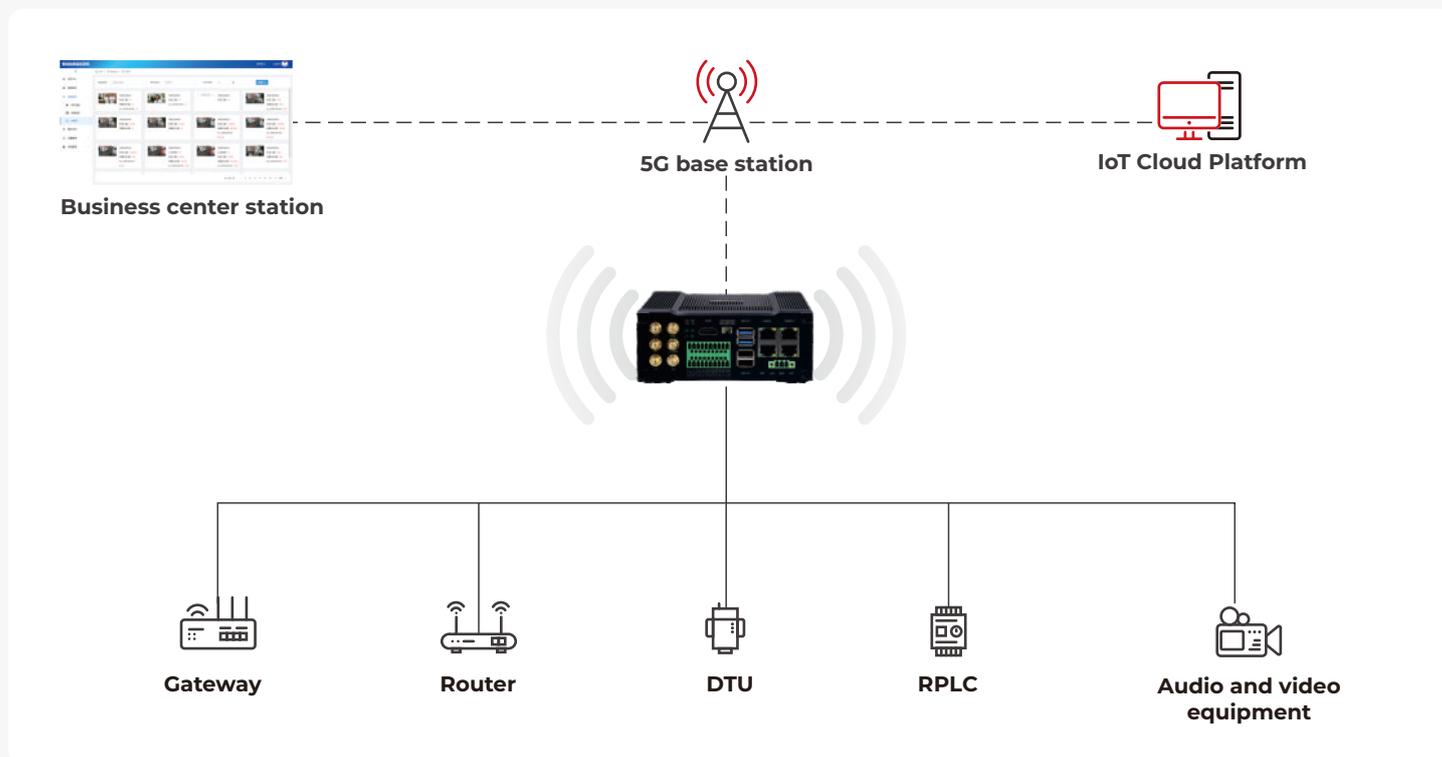


**Support multiple types of
AI recognition algorithms and
other customized algorithms**



**Integrate data collection, edge control
and analysis, telecommunication,
and AI capabilities**

Topology diagram



Smart power



Smart transportation



Smart construction site



Smart gas

Features



AI computing power

Support four major categories of AI algorithms, including dozens of industry AI algorithms such as helmet, work clothes, smoking, flame, smoke, water level, and cross-border, the computing power is as high as 6TOPS.



Edge control

Support combination with other node devices, integrating control, calculation, and analysis to provide a super brain for the site.



Stable operation

Support wired/cellular backup, multi-mode backup, software and hardware dual watchdog, never crash, 5G LAN, network cutting, multi-DNN, and frequency locking.



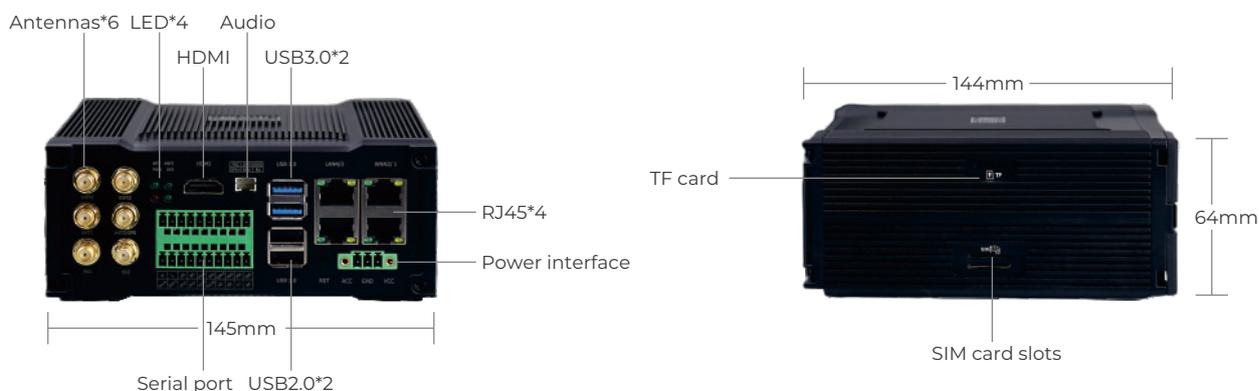
Rich interfaces

Equipped with rich interfaces such as RJ45, RS232, RS485, CAN, HDMI, etc., to transmit data in various ways.

Specification

Hardware			
CPU	Rockchip RK3588		
Memory	8GB/12GB	Built-in storage	32GB/64GB
Cellular Interface			
Modem	1×5G NR/NSA/SA or 1×LTE-FDD/TDD		
Number of Antennas	6	SIM	2×Mini SIM (2FF)
Peripheral Interface			
Serial	2×RS-232 + 4×RS-485 serial port	USB	2×USB3.0, 2×USB2.0
Ethernet	2×LAN 10/100/1000Mbps+2×WAN/LAN 10/100/1000Mbps		
Display	1×HDMI, maximum resolution 2K@30Hz, supports audio		
Software			
Operating System	Hongdian self-developed OSDT system		
AI algorithm	Face recognition, personnel fatigue detection, fall recognition, safety hat recognition, work clothes recognition, smoking recognition, phone-call recognition, flame recognition, smoke recognition, water level detection, etc.		
Video Code	H.265/H.264/VP9, 4K@60fpsHD video decoding		
Image processing	BMP, JPG, PNG, GIF		
Power Supply and Consumption			
Connector	3 pin socket	Voltage Input	DC 9~36V, including ACC
Power Consumption	Idle: 333mA@12V DC, Data transceiving: 598mA@12V DC		
Others			
Reset Button	Yes	Hardware Watchdog	Yes
LED Indicators	4 indicators for SYS, WiFi, NET, PWR		
Physical Characteristics			
Ingress Protection	IP30	Housing	Aluminum+ABS plastic
Dimension	145.0×144.0×64.0(mm)	Installations	Wall-mounting
Operating Temperature	-20 ~ +70 °C	Storage Temperature	-40 ~ +80 °C
Relative Humidity	0~90%(no condensation)		

Appearance



Packing list



Packing box



Smart3000 AI box



WiFi antenna



NR & LTE antenna



GPS antenna
• Only GPS Version



Ethernet cable



Mounting kits