



Smart2000

AI Box



Overview

Smart2000 5G AI Box is a powerful and stable AIoT computing intelligent terminal equipped with AI intelligent processing chip and embedded mature algorithm based on deep learning. It can conduct intelligent analysis of real-time video, and is widely used in smart power, smart energy, smart retail, perimeter defense, smart security and other scenarios.

Highlights



Support switch function which can directly connect the camera and provides POE power supply



Multiple communication modes, including wired ethernet/FOC, 4G/5G/Wi-Fi, BD/GPS positioning, etc.

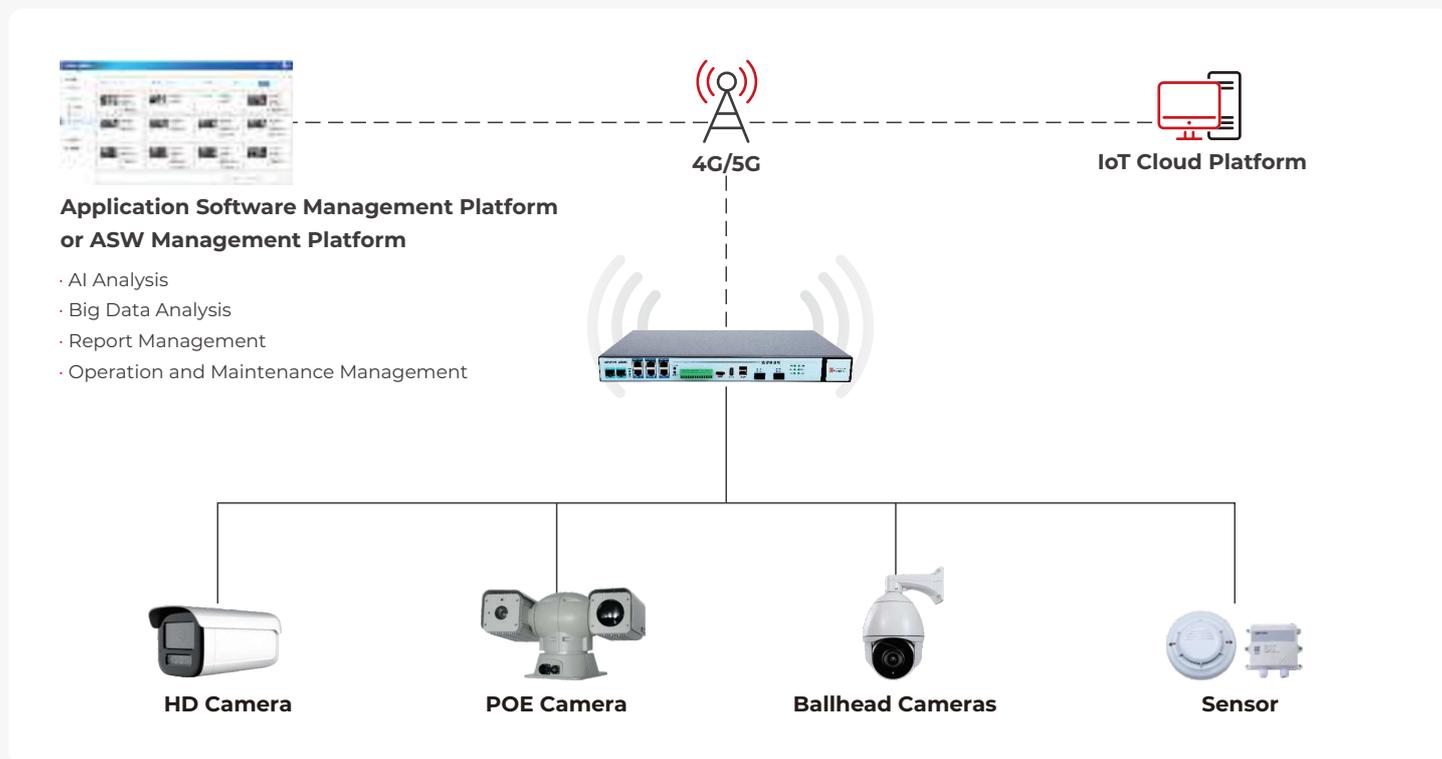


300+ industrial protocol conversions and multiple protocols access sensor data



Support cloud-edge collaboration

Topology diagram



Power Distribution Room



Smart construction site



Urban security



Smart Ports

Features



Fast Deployment

- Rich interfaces
- Support switch function which can directly connect the camera and provides POE power supply



Multiple Communication Modes

- Wired Ethernet/FOC, 4G/5G/Wi-Fi, BD/GPS positioning, LoRa



Variety of Applications

- 300+ industrial protocol conversions
- Multiple protocols access sensor data
- Support SATA interface with expandable hard drive to enhance video data storage



Routing Function

- Self-developed OSDT operation system which supports Docker containers improving engineering usability
- Support Hongdian AI management platform for vertical business analysis and applications

Specification

Hardware			
CPU	Dual core ARM Cortex-A72 + Dual core ARM Cortex-A53 @1.8GHz		
NPU	3Tops	Memory	4GB
Built-in storage	8GB/32GB eMMC		
Cellular Interface			
Modem	1 × LTE Cat4 or 1 × 5G NR SA/NSA	Number of Antennas	1
Connector	SMA-K	SIM	2×Mini SIM (2FF)
Wireless Interface			
Standards	802.11b/g/n/ac, AP or station modes		
Frequency Bands	2.4 GHz	Speed	150Mbps
Security	WEP, WPA, WPA2	Encryption	64/128 AES, TKIP
Antennas	1	Connector	SMA-K
GNSS Interface			
Number of Antennas	1 (optional)	Connector	SMA-K
Peripheral Interface			
Ethernet	5 × LAN 10/100/1000Mbps + 1 × WAN/LAN 10/100/1000Mbps, Gigabit Ethernet		
Serial	2 × RS-232 + 4 × RS-485 serial port	USB	1 × USB3.0, 2 × USB2.0
TF Card	2	SFP	2 × SFP
IO	2 × DO, 16 × DI	Audio	Audio IN/OU
Display	1 × HDMI, maximum resolution 2K@30Hz, supports audio		
Software			
Video Code	H.265/H.264/VP9, 4K@60fpsHD video decoding		
Image processing	BMP, JPG, PNG, GIF		
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.		
Network	Muit-DNN, APN, VPDN, QoS		
Power Supply and Consumption			
Connector	2 pin socket	Voltage Input	DC 9~16V
Power Consumption	Idle: 400mA@12V DC, Data transeiving: 600mA@12V DC		
Others			
Reset Button	Yes	Hardware Watchdog	Yes
LED Indicators	6 indicators for SYS, WiFi, HDD, NET, SIG, LORA		
Physical Characteristics			
Ingress Protection	IP43	Housing & Weight	Metal, about 3300g
Dimension	430×300×45(mm)	Installations	Wall-mounting
Operating Temperature	-30 ~ +75 °C	Storage Temperature	-40 ~ +80 °C
Relative Humidity	0~90%(no condensation)		

Appearance

