



Connecting things
Hongdian

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Smart3000

Edge AI Gateway



Overview

Smart3000 Edge AI Gateway is a high-performance and reliable AIoT smart terminal. It can be configured as a 5G NR/4G LTE VPN router, IoT gateway, industrial controller or edge AI computer driven by Hongdian's proprietary algorithm library, delivering an all-in-one edge computing solution for diverse vertical industry applications. Featuring 6 TOPS AI computing power, robust hardware and user-friendly development environment, it is an optimal choice for clients developing and training custom AI software.

Highlights



All-in-One High-Performance AI Converged Gateway

Powered by the RK3588 high-performance SoC with 6 TOPS AI computing power, integrates data acquisition, integrated control, edge analytics, multi-mode communication and AI inference capabilities into a single edge computing powerhouse.



Comprehensive Proprietary AI Algorithm Suite

Supports a wide range of AI recognition algorithms covering personnel safety, operational compliance, environmental monitoring and vehicle management. Combines general-purpose and industry-specific algorithms that can be invoked on demand, integrated with Hongdian's self-developed AI models for flexible combination and deployment.



Legacy System Compatibility

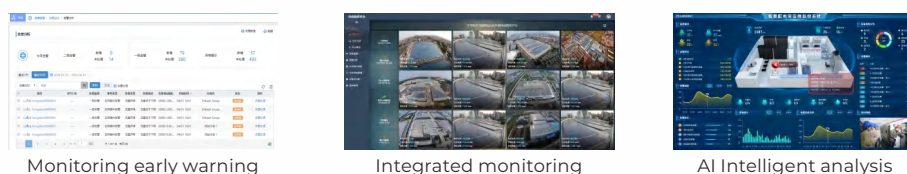
Seamlessly integrates with existing cameras and sensors to add edge AI capabilities. Protects your existing investments and reduces deployment time and costs.



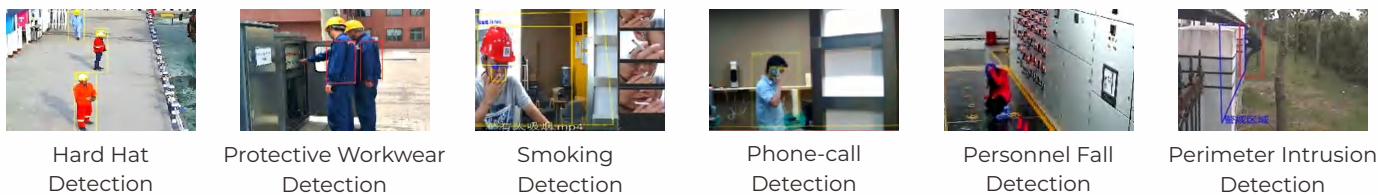
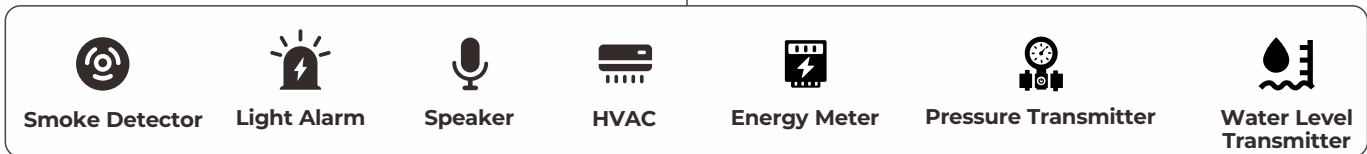
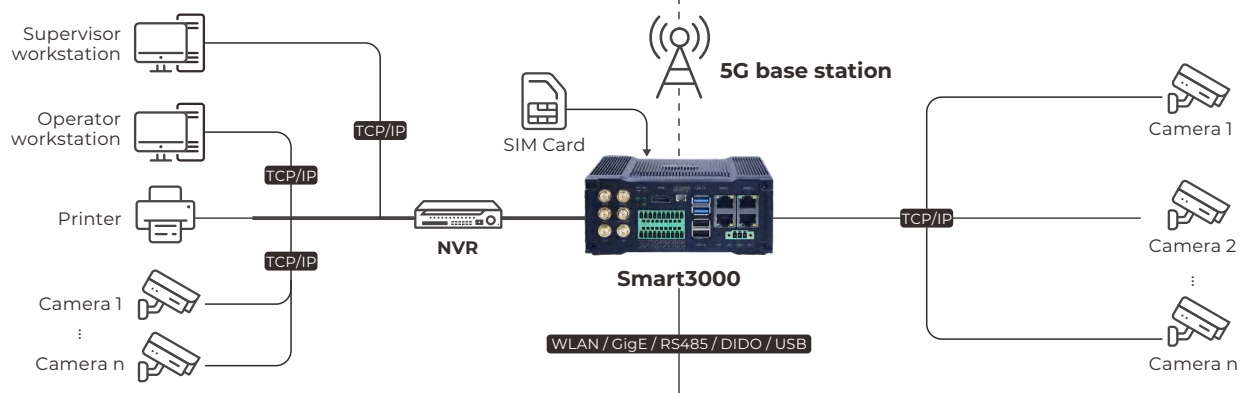
Edge-Native Data Security and Privacy

A fully on-premises, secure and private solution that processes all sensitive data locally at the edge. Eliminates the risk of unauthorized external access, ensures compliance with global data protection regulations, and avoids data leakage associated with cloud transmission.

5G AIoT Edge and Cloud Smart Solution



Hongdian intelligent station operation and management platform

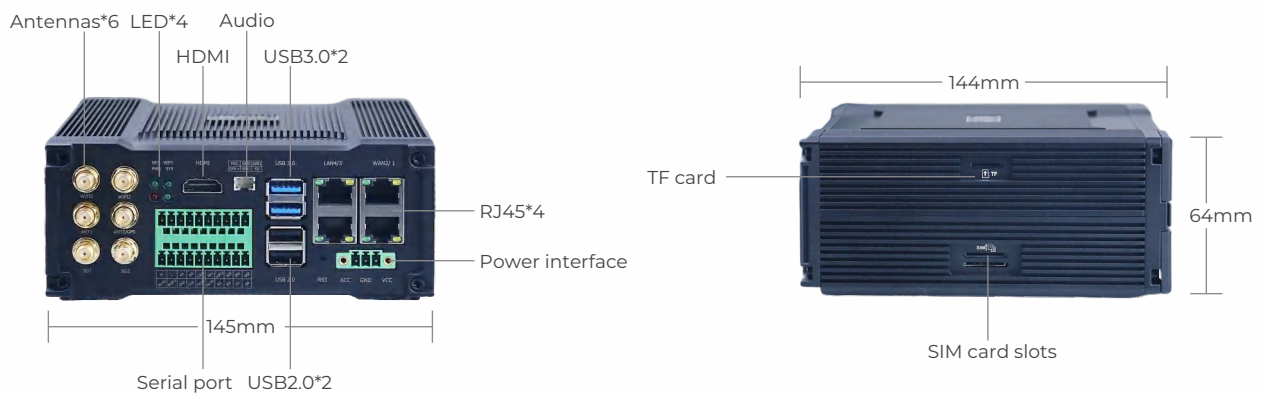


Specification

Hardware			
CPU	Rk3588	Memory	8GB/12GB
NPU	6Tops	Built-in storage	32GB/64GB/128GB
Cellular Interface			
Modem	1 × LTE Cat4 or 1 × 5G NR SA/NSA	Number of Antennas	2
Connector	SMA-K	SIM	2×Mini SIM (2FF) (eSIM optional)
Wireless Interface			
Standards	802.11b/g/n/ac/ax, AP or station modes		
Security	WEP, WPA, WPA2	Frequency Bands	2.4 GHz & 5 GHz
Antennas	2	Connector	RP SMA-K

GNSS Interface			
Number of Antennas	1 (optional)	Connector	SMA-K
Peripheral Interface			
Ethernet	2 × LAN 10/100/1000Mbps + 2×WAN/LAN 10/100/1000Mbps, Ethernet		
Serial	2 × RS-232 + 3 × RS-485 serial port	USB	2 × USB3.0, 2 × USB2.0
TF Card	1	Can	1
I/O	2 × Relay Switch, 2 × DI, 2 × DO	Audio	Audio in/out
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 application, fall application, flame application, people flow application, counting application, license plate application, area intrusion, petroleum work clothes application, phone call application, safety helmet application, reflective clothing application, smoke application, water gauge application, animal application, lighting application, mask application, motion detection.		
Network	Muit-DNN, APN, VPDN, QoS, 5G LAN		
Docker	Support docker container function		
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	IP43	Housing & Weight	Aluminum+ABS plastic, about 900g
Dimension	145×144×64(mm)	Installations	Wall-mounting
Operating Temperature	-30 ~ +70 °C	Storage Temperature	-40 ~ +80 °C
Relative Humidity	0~90%(no condensation)		

Appearance











Ordering info

Part No.	Modem	Band	Region*	RS-232	RS-485	DI/DO	Ethernet	Wi-Fi	GNSS
Smart3000-W6	—	X	ALL	2	3	2	4	802.11ax	•
Smart3000-L4NA-WG	Single LTE Cat4	LTE-FDD:B2/4/5/12/13/14/66/71 WCDMA:B2/4/5	NA	2	3	2	4	802.11ax	•
Smart3000-L4EA-WG	Single LTE Cat4	LTE-FDD:B1/3/5/7/8/20 LTE-TDD:B38/40/41 WCDMA:B1/5/8 GSM/EDGE:B3/8	EMEA	2	3	2	4	802.11ax	•

* Region*: ALL - No Restriction, NA - North America, EMEA - Europe, the Middle East, Africa/APAC
 * More Models Coming Soon, contact our sales team for specific requirements

Packing list

 <p>Packing box</p>	 <p>Smart3000 edge AI gateway</p>	 <p>Wi-Fi antenna</p>	 <p>Ethernet cable</p>
 <p>5G antenna * 5G Version</p>	 <p>4G antenna * 4G Version</p>	 <p>GPS antenna * Only GPS Version</p>	 <p>Mounting kits</p>