



AI Edge Computing Hardware · Full-Stack Solutions

Edge Intelligent Computing · Making AI Accessible

About DepthGo

Focused on AI Edge Computing Hardware

R&D and Manufacturing High-Tech Enterprise

DepthGo Technology (Shenzhen) Co., Ltd. is headquartered in Shenzhen, with a Complete Supply Chain system covering industrial design, structural development, electronic hardware & software R&D, SMT production, and finished product manufacturing.

Built on four mainstream chip platforms — BM1684X, BM1688, CV186AH, and RK3588 — our product line covers edge computing boxes, 1U micro servers, 2U large-small model hybrid inference servers, and other full-stack AI hardware solutions, with computing power covering 6~294 TOPS.

50+

R&D Personnel

20+

Products

6~294

Computing Power Coverage (TOPS)



◆ Core Advantages

Complete Supply Chain

Industrial Design → Hardware R&D → SMT Production
→ Finished Product Delivery

Full-Process Self-Operation

From raw material procurement to finished product output, End-to-end control, fully automated production line

Customized Services

From standard products to customized ODM/OEM one-stop services

AI Algorithm Adaptation

Supporting mainstream frameworks like PyTorch/TensorFlow and large model inference

Four Chip Platforms • 20+ Full-Series Products

Covering 6–294 TOPS computing power, meeting full-scenario needs from edge boxes to rack servers



BM1684x

Sophon Sophon

32 TOPS

INT8 Computing • 8-Core
A53@2.3GHz

SS-SE7 Series • 5 Products

Module / 1U Server / 1U Wide-Temp / 1U Dual-Board / Standard/Mini Type



BM1688

Sophon Sophon

16 TOPS

INT8 Computing • 8-Core
CA53@1.6GHz

SS-SE9 Series • 4 Products

Standard/MiniType/Ultra-Slim/1U Micro Server



CV186AH

Sophon Sophon

7.2 TOPS

INT8 Computing • 6-Core
A53@1.6GHz

SS-SE9H Series • 3 Products

Standard/MiniType/Ultra-Slim



RK3588

Rockchip

6 TOPS

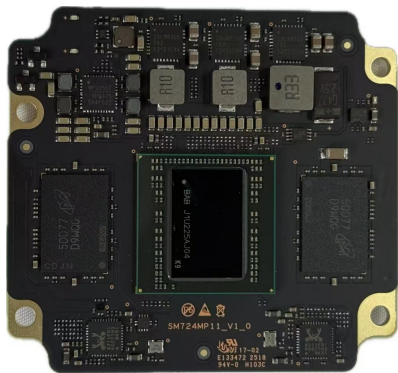
NPU Computing • 8nm • 8-Core
64-bit

SS-SER58 Series • 1 Product

AI Edge Computing Smart Box • 8K Codec

32 TOPS INT8 • High-Performance Flagship

Powered by SophonBM1684X intelligent vision deep learning processor, supporting ChatGLM3-6B, Qwen-7B and other large language models



Core Module

SS-SM7-V4.0

32-Channel Decoding
PCIe Gen3
Secure Encryption

Temp: $-40^{\circ}\text{C} \sim +95^{\circ}\text{C}$



1U Server

SS-SE7-1U-1664

HDD Support
WiFi/4G/5G
 $430 \times 400 \times 44.5\text{mm}$

Temp: $-20^{\circ}\text{C} \sim 45^{\circ}\text{C}$



1U Wide-Temp

SS-SE7-1UF1664

Silent Fanless
IP40 Protection
Low Power Consumption

Temp: $-40^{\circ}\text{C} \sim 70^{\circ}\text{C}$



1U Dual-Board

SS-SE7-1UD3228

Dual Core Board
4× Gigabit Ethernet
64-Channel Decoding

Temp: $-20^{\circ}\text{C} \sim 45^{\circ}\text{C}$



Standard Type

SS-SE7-BA1664

Standard
Wireless Expansion
 $260 \times 214 \times 52\text{mm}$

Temp: $-20^{\circ}\text{C} \sim 60^{\circ}\text{C}$



Mini Type

SS-SE7-BB1664

Only $104 \times 85\text{mm}$
12V/3A
Type-C Debug

Temp: $-20^{\circ}\text{C} \sim 60^{\circ}\text{C}$

BM1688 Series

16 TOPS INT8 • Mainstream High Integration

Powered by Sophon BM1688 high-integration edge TPU processor, 16-channel HD video intelligent analysis



Standard

SS-SE9-BA0832

Edge Computing Box

CAN Bus
16-Channel Analysis
234×200×51.9mm

Temp: -20℃~60℃



Mini Type

SS-SE9-BB0832

Edge Computing Box

Only 104×85mm
12V/3A

Temp: -20℃~60℃



Ultra-Slim

SS-SE9-BC0832

Edge Computing Box

Ultra-Slim 30mm
CAN Bus
180×200×30mm

Temp: -20℃~60℃



1U Server

SS-SE9-1U-0832

1U Standard Rack

HDD Support
WiFi/4G/5G
430×400×44.5mm

Temp: -20℃~60℃

CV186AH Series

7.2 TOPS • Wide-Temp High Reliability

6-Core ARM A53@1.6GHz • 8-Channel HD Video Intelligent Analysis



Standard

SS-SE9H-BA0832

8K Decoding
CAN Bus
234×200×51.9mm

Temp: -20℃~60℃



Mini Type

SS-SE9H-BB0432

8K Codec
Only 104×85mm
Mixed Precision

Temp: -20℃~60℃



Ultra-Slim

SS-SE9H-BC0832

Ultra-Slim 30mm
CAN Bus
180×200×30mm

Temp: -20℃~60℃

Full Series Supports -20℃~60℃ Operation

RK3588 Series

6 TOPS • 8K Multimedia

8nm Process • 8-Core 64-bit • 4×A76+4×A55 • Mali-G610



AI Edge Computing Smart Box

SS-SER58-BA0832

Video Codec

8K@30fps Encoding /
8K@60fps Decoding

Display Output

2× HDMI 2.1 Dual Display
8K@60Hz

Memory & Storage

DDR5 8GB + 32GB eMMC + M.2

Expansion Interfaces

RS485/RS232 • DI/DO • SIM/TF

Ubuntu

Debian

Temp: -20℃~60℃ • 260×214×52mm

Flagship Product

Large-Small Model Hybrid Inference Server • 2U Standard Rack

RK3588 + BM1684X + High-Computing Stick • Heterogeneous Computing Architecture



Heterogeneous Computing Architecture

Small Model Inference

BM1684X 32T
Computing Power

->

Large Model Inference

Houmo M50 160T
Computing Stick

->

Localized Operation

Edge-Side AI
Full-Stack
Deployment

Technical Specifications

Component	RK3588 Mainboard	BM1684X Core Board
CPU	4×A76 + 4×A55	8-Core A53@2.3GHz
Computing Power	6 TOPS NPU	32 TOPS × (0~4)
Memory	LPDDR5 8G	LPDDR4X 16G
Storage	32G eMMC 5.1	64G eMMC 5.1
System	Linux	Linux
Video	8K60FPS Decoding/8K30FPS Encoding	-
Ethernet	2× Gigabit	-
USB	2×USB3.0 + 2×USB2.0	Type-C Debug
Expansion	M.2 PCIe3.0/Computing Stick Slot	TF Card Slot
Wireless	4G/5G + WiFi (Optional)	-
Hard Drive	M.2 SATA 2TB / HDD 8TB	-
Power	90Vac~264Vac	
Temp	-20℃ (Non-Cold-Start)~25℃	

Core Parameters

294

128

TOPS Total Computing Power (INT8) Channel Video Input Capacity

* Small + Large model localized analysis operation

* Mature and comprehensive AI hardware software development environment

* Significantly improves overall algorithm accuracy

* Industrial design, stable and reliable

Seven Industry Sectors • Computing Base for Intelligent Upgrade

AI edge computing hardware is widely applied across multiple industries, providing powerful computing support for intelligent upgrades



Smart Campus

Smart Exam Supervision
Campus Security



Smart Commerce

Customer Flow Analysis
Smart Shelf
Unmanned Retail
Store Digitization



Smart Energy

Power Grid Inspection/Energy Monitoring
New Energy O&M/Smart Substation



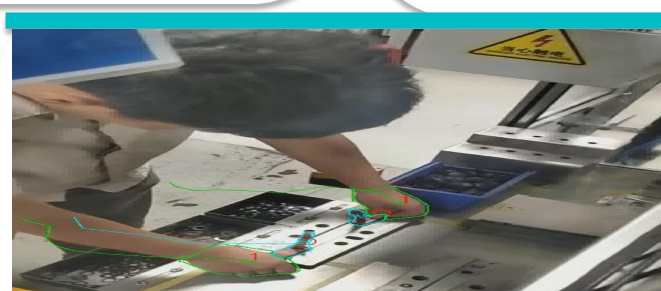
Smart Transportation

Traffic Flow Statistics/Road Surveillance
Event Detection/License Plate Recognition



Smart Finance

VIP Recognition
ATM Smart Monitoring
Lobby Behavior Analysis



Smart Industry

Product Quality Inspection
Defect Detection
Safe Production • Industrial Robots



Smart Healthcare

Medical Imaging Analysis
Ward Monitoring
Operating Room Assistance

Core Value Proposition

Committed to providing high-performance, high-reliability edge computing base for industry intelligent upgrade, from standard products to customized ODM/OEM one-stop services

Ordering Information

Product Selection Guide

◆ BM1684x Series (32 TOPS)

Model	Form	Computing Power	Memory	Storage	Ethernet	Temp
SE7-1U-1664	1U Server	32T	16G	64G+M.2	2×Gigabit	-20~45℃
SE7-1UF1664	1U Wide-Temp	32T	16G	64G+M.2	2×Gigabit	-40~70℃
SE7-1UD3228	1U Dual-Board	64T	16G×2	64G×2 M.2×2	4×Gigabit	-20~45℃
SE7-BA1664	Standard Type	32T	16G	64G+M.2	2×Gigabit	-20~60℃
SE7-BB1664	Mini Type	32T	16G	64G	2×Gigabit	-20~60℃

◆ BM1688 / CV186AH Series

Model	Chip	Computing Power	Memory	WiFi	Temp
SE9-BA0832	BM1688	16T	8/16G	Optional	-20~60℃
SE9-BB0832	BM1688	16T	8/16G	None	-20~60℃
SE9-BC0832	BM1688	16T	8/16G	Optional	-20~60℃
SE9H-BA0832	CV186AH	7.2T	8/16G	Optional	-20~60℃
SE9H-BB0432	CV186AH	7.2T	4G	None	-20~60℃
SE9H-BC0832	CV186AH	7.2T	8G	Optional	-20~60℃

◆ RK3588 Series

SS-SER58-BA0832 | RK3588 | 8GB LPDDR5 | 32GB eMMC + M.2 | 2×Gigabit | 2×HDMI | -20~60℃

◆ Optional Accessories

SSD Storage	128GB/256GB/512GB SATA M.2 2280	4G/5G Module	Including Antenna
Power Adapter	AC 220V/DC 24V	WiFi Antenna	SMA Antenna (Standard)



Contact Us

Looking forward to cooperating with you to create the future of AI edge intelligence

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Production Base

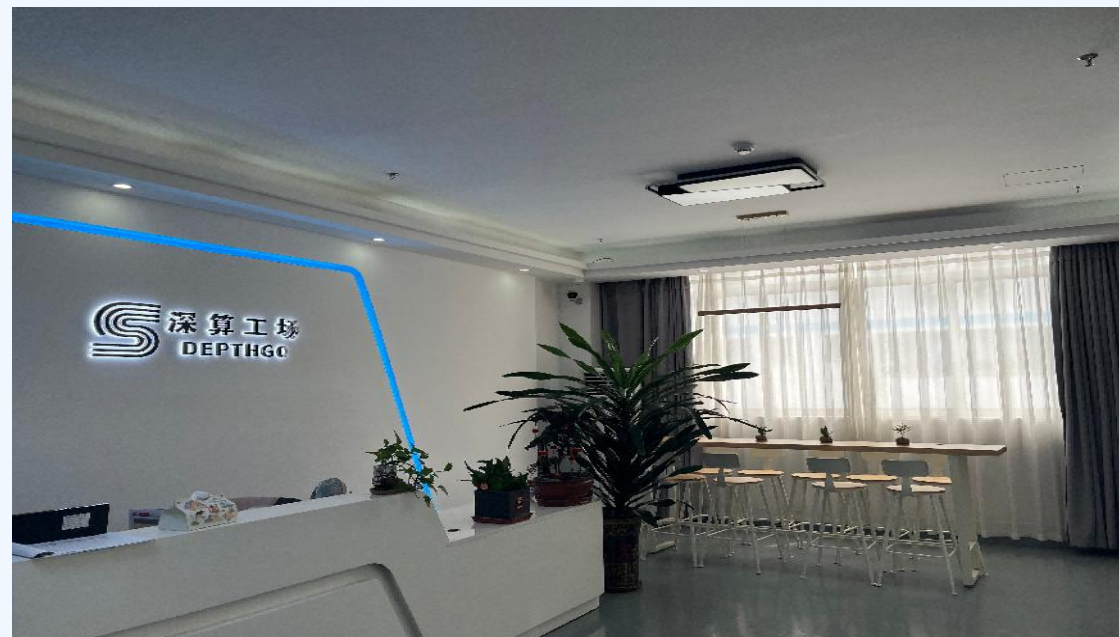
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