ZRT 智锐通

-开创AI医疗新高度，让生命更精彩-

Official & Youtube

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Shenzhen ZRT Technology Co., Ltd

intel partner Titanium IoT Solutions

ZRT 智锐通

Smart Medical

Elevating Life to New Heights

DIRECTORY

ZRT 智锐通

COMPANY PROFILE

Shenzhen ZRT Technology Co., Ltd., established in 2014, is a national high - tech enterprise specializing in the development, production, and sales of AI hardware solutions, particularly in the field of smart healthcare. The company operates from a 1,300m² R&D center and office space, along with a fully-owned 6,000m² manufacturing facility, which spans the entire production process from SMT to final assembly. ZRT employs over 230 staff and is committed to "empowering tomorrow's AI computing, elevating life to new heights."

ZRT focuses on providing cutting-edge modular AI computing solutions for the medical industry. Its core technologies center around AI acceleration and modular processors (CPU, MCU), delivering tailored solutions for medical imaging AI analysis, in vitro diagnostics, biochemical and molecular testing, life monitoring, and medical information terminals. The product lineup includes AI accelerator modules, medical displays, imaging analysis terminals, diagnostic equipment components, and healthcare information terminals. All products adhere to strict medical standards and are known for their modular design, compact form factor, high computational power, and exceptional reliability.

In addition to hardware, ZRT also offers comprehensive software support, including SDKs, driver development, and customized system software, providing customers with complete, end-to-end solutions tailored to their specific needs.

--Intel Partner Alliances Titanium member
--Platform alliances member of Rockchip, Allwinner, Hygon
--Ecosystem partners of Intel, NVIDIA, AMD, NXP, Cambricon, Vastai, Sophgo, etc

【Our vision: To empower all medical devices with AI intelligence.】

Annual Value of Production	Production Base	Registered Capital	Partners
320mRMB	6000m²	30mRMB	300+

COOPERATIVE PARTNERS

Insight Lifetech
DAWEI
EMP
VINNO
PHILIPS
Wisonic
MGI
JUSHA
BEACON
BIG TIDE
GE
CARBON
COMEN
KTC
SonoScape
United Imaging
Lanmage
Mindray
Mindray animal care
OptoMedic
RainMed
Sunray
XIFO
CHISON
SIEMENS
ZONCARE
First Imaging

■ In no particular order

COMPANY HONORS

- China High-Tech Enterprise
- Selected into “Specialized and Special New” enterprise list.
- 2022 Intel IoT "Best Growth" Award
- 2023 China Intelligent Transportation Technology Innovation Award
- 7th Annual AI Industry Awards "Most Innovative Product" Award
- Guangdong Province Contract-Abiding and Creditworthy Enterprise
- Mindray "Global Outstanding Partner" Award
- JUSHA Medical Core Supplier Certification
- 2018 Top 10 Best Industrial Electronics and Smart Factory Technology & Solution Providers

Eco-system Partners

- Intel Partner Alliances Titanium member
- Cambricon Silver Ecosystem Partner Certification
- NVIDIA Partner
- Rockchip Partner
- Phytium Ecosystem Partner Certification

INTELLIGENT PRODUCTION SYSTEM

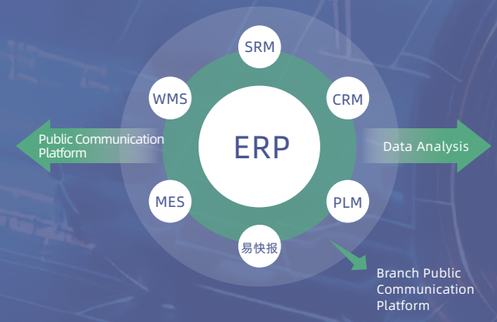
ZRT R&D System

20+m RMB/year	50+	20+m RMB	200+ sets
R&D investment	R&D stuff	Electronic Signal and EMC Testing Center	R&D equipment

ZRT Production System

- 3 Panasonic NPM-D3 dual track SMT lines
- Dual-track asynchronous speed-adjustable 12-zone nitrogen reflow oven
- 3D X-Ray
- Automatic First Article Inspection Machine
- 2 assembly lines + 3 testing lines + 1 final assembly line
- Temperature and humidity chamber, thermal shock chamber, vibration table, drop tester...

ZRT Management System



ZRT Patent

- 81 Software Copyright
- 19 Design Patent
- 59 Utility Model
- 12 Invention Patent

ZRT 智锐通

Smart Medical

Elevating Life to New Heights

- In the new era of smart healthcare, medical imaging undoubtedly occupies a central role. As medical technology continues to advance, the need for upgrading medical imaging equipment has become increasingly urgent, with a growing demand for enhanced computing power.

- In response to the pressing needs of medical equipment manufacturers in product development and design, as well as the complex and evolving challenges in the smart healthcare environment, ZRT has introduced a range of innovative and reliable medical computing solutions. With powerful computational support, these solutions provide AI capabilities to propel the field of smart healthcare to new heights.

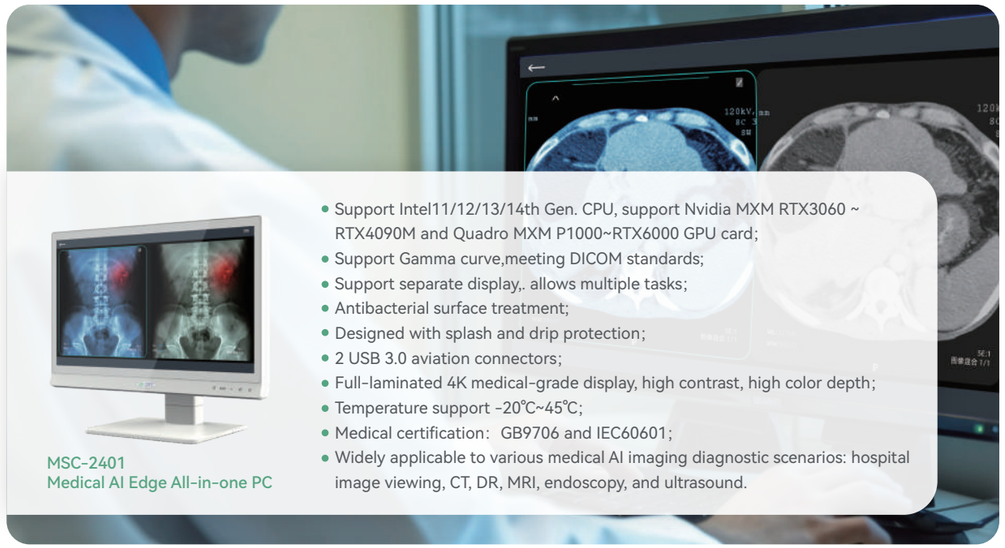
Smart Medical Imaging

Auxiliary Diagnosis

With advancements in medical technology, AI-assisted diagnosis is becoming standard, but handling large volumes of imaging data and complex analyses presents new challenges. ZRT's medical AI analysis terminals, equipped with high-performance AI hardware, enhance diagnostic accuracy and efficiency, offering strong support for doctors and advancing smart medical services.

ZRT Advantages:

- High computing power
- Capable for multiple applications
- Meeting medical safety standards



MSC-2401
Medical AI Edge All-in-one PC

- Support Intel11/12/13/14th Gen. CPU, support Nvidia MXM RTX3060 ~ RTX4090M and Quadro MXM P1000~RTX6000 GPU card;
- Support Gamma curve,meeting DICOM standards;
- Support separate display,. allows multiple tasks;
- Antibacterial surface treatment;
- Designed with splash and drip protection;
- 2 USB 3.0 aviation connectors;
- Full-laminated 4K medical-grade display, high contrast, high color depth;
- Temperature support -20℃~45℃;
- Medical certification: GB9706 and IEC60601;
- Widely applicable to various medical AI imaging diagnostic scenarios: hospital image viewing, CT, DR, MRI, endoscopy, and ultrasound.

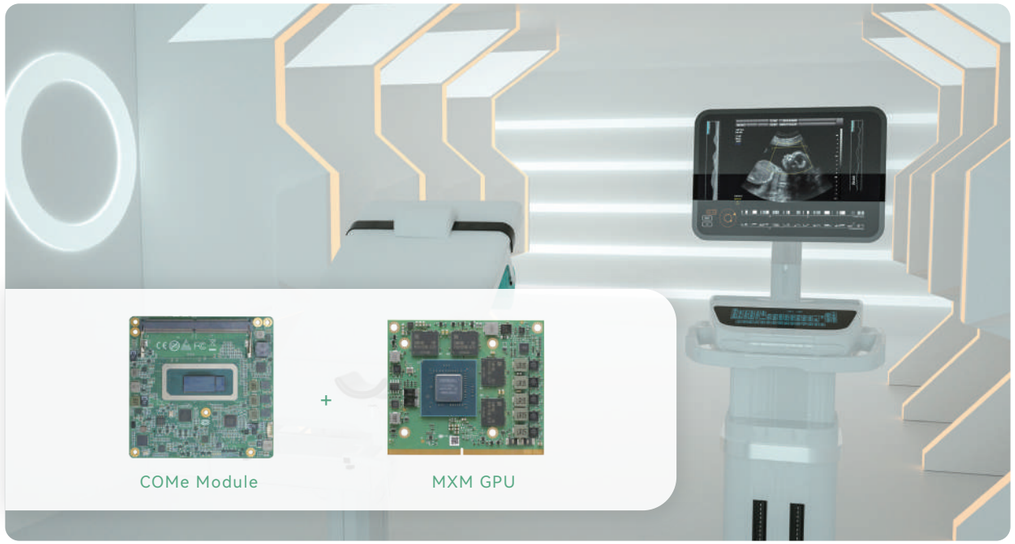
Smart Medical Imaging

Ultrasound Equipment

Medical ultrasound diagnosis is a crucial component of modern imaging technology, with the advanced design and hardware directly affecting diagnostic accuracy and efficiency. ZRT offers high performance AI computing modules and COME core module product combinations for ultrasound equipment. These solutions meet the demands for high-resolution image display, ensure excellent device expandability, and provide robust real-time data processing capabilities, laying a solid foundation for smooth and accurate ultrasound image presentation and analysis.

ZRT Advantages:

- High performance Low power consumption
- Fast response speed
- Long life circle and warranty



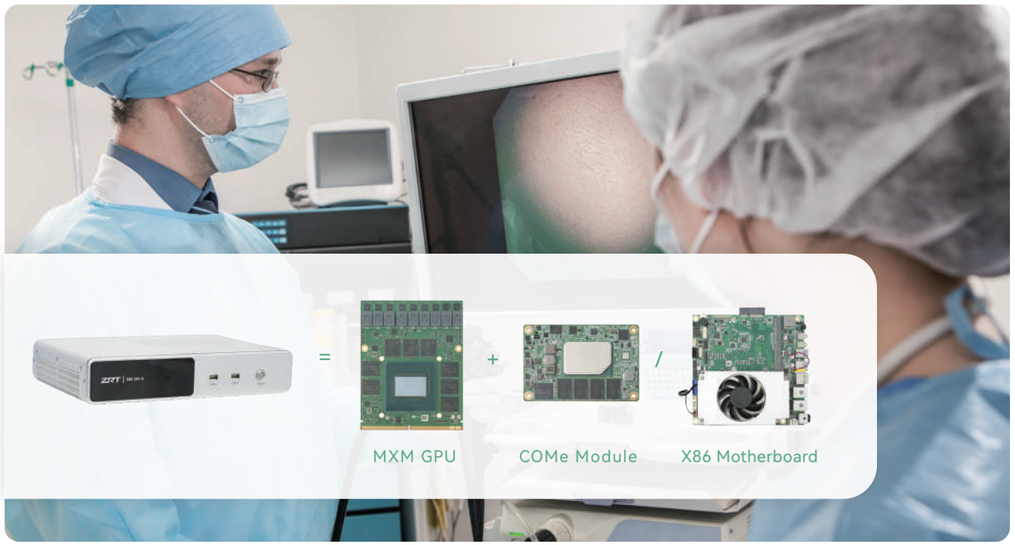
Smart Medical Imaging

Endoscope Equipment

Medical endoscope equipment is a key tool in modern minimally invasive procedures. Its integrated performance and precision design are crucial for diagnostic accuracy and surgical efficiency. Advanced endoscopes require detailed internal observation, clear and stable image transmission, and efficient real-time data processing. ZRT offers innovative AI solutions for endoscopes with powerful computing capabilities, supporting real-time high-resolution image capture and processing for clearer and more detailed endoscopic images.

ZRT Advantages:

- High computing power
- Customized service
- Long life circle



Smart Medical Imaging
CT Imaging System

CT imaging involves large data volumes and complex processing, requiring high-performance computing units to accelerate image processing and analysis. ZRT provides high-performance AI workstations for CT imaging systems, delivering exceptional computing power and high-definition image processing and display capabilities, resulting in significant performance improvements and operational ease.

ZRT Advantages:

- High computing power
- High imaging processing speed
- Long life circle



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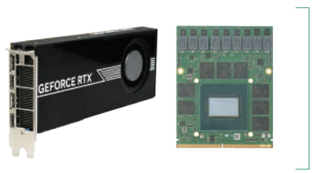

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GPU/AI Accelerator Card

X86 Motherboard

Smart Medical Imaging
Medical DR Equipment

DR equipment is a core component of modern medical imaging technology, providing essential support for clinical diagnosis and treatment with its exceptional performance and efficient workflow. ZRT's CPU and GPU hardware enable the creation of advanced AI workstations for DR systems, meeting their high-performance computing needs. This ensures efficient and accurate real-time data processing, offering more effective, precise, and safe solutions for clinical DR applications.

ZRT Advantages:

- High cost-performance
- High reliability, compact size
- Long life circle

Smart Medical Imaging

IVD (In Vitro Diagnostic) equipment

In the field of medical technology, IVD (In Vitro Diagnostic) equipment plays a crucial role in disease diagnosis with its precision and efficiency. However, the growing demand for data processing is increasing the requirements for the main control hardware of IVD devices. ZRT's innovative AI motherboard solutions offer outstanding performance, stable operation, and powerful data processing capabilities, enabling fast and accurate sample analysis and providing solid support for medical diagnostics.

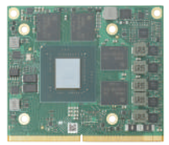
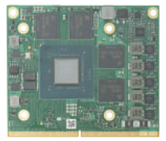
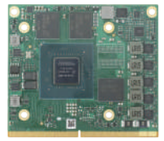
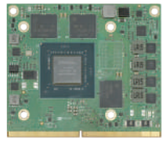
ZRT Advantages:

- Flexible customization
- Long life circle
- Long warranty

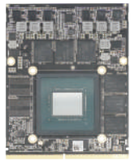
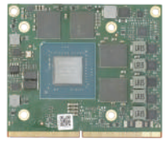
Medical AI Edge All-in-one PC

Product	
Model	**MSC-2401**
Type	AI All-in-one PC
Display / Touch Panel	23.8" full-laminated screen, 4K high-definition, high brightness, high gray scale, high contrast. In-built DICOM/Gamma curves to meet medical standards.
Processor	Intel Raptor Lake-H I5/I7/I9，i5-13500H(default)/i7-13700H/i9-13900H
MXM Module	Support MXM 3 .1 GPU module
RAM	2*SO-DIMM，DDR5，64G 4800MHz
Expansion	1*M.2 Key-M(2242 / 2280) for PCIe*4 1*M.2 Key-B(2242 /2280) for SATA SSD or 4G/5G(3042 /3052) or (2242 /2280) for PCIe*1 SSD 1*M.2 Key-E(2230) for WIFI 1 x M.2 Key-M(2242 / 2280) for PCIeX4 SDI capture card
Storage	1*SATA3.0(7P+15Pins)drawer type bay
Display	8bit
	Resolution：HDMI2.0:4096*2160@60Hz DP:7680*4096@60Hz
USB/Type-C	2*USB3.0、2*USB2.0、2*USB3.0(aviation connectors), 1*SDI（optional）
Audio	ALC897，1*Line Out、1*MIC In
Ethernet	2*RJ45 10/100/1000M，Intel® Ethernet Controller I225-AT
2D	EM3296 and N3680, support Newland USB port, support hardware decoding
Button	1*RV Button、1*Reset Button
Power	1*DC In (4P In), 18~26V, optional for internal AC-DC power module (AC220V，350W)
Environment	Working Temp.：0~50℃;
	Storage Temp.：-20~70℃
	Working humidity: 10~95%(non-condensing)
Physical	Color：White, Size：L580.9*W350.3*60mm
OS	Windows 10、Linux
Certification	EN60601-1、-2，ESD 8KV/15；GB9706；

Selected AI Accelerator Module (GeForce)

Product							
Model	**MM4090B6-16G**	**MM4070A6-8G**	**MM4060A6-8G**	**MM4050A6-6G**	**MM3080B6-16G V2**	**MM3060B6-12G V2**	**MD3050A6-6G**
Chipset	RTX4090 Max-Q	RTX4070 Max-Q	RTX4060 Max-Q	RTX4050 Max-Q	RTX3080 Mobilty	RTX3060 Mobilty	RTX3050
Memory	16G GDDR6 256bit	8G GDDR6 128bit	8G GDDR6 128bit	6G GDDR6 96bit	16G GDDR6 256bit	12G GDDR6 192bit	6G GDDR6 96bit
Chip Clock	930MHz	735MHz	1140MHz	1140MHz	1110MHz	900MHz	1042MHz
Boost	1455MHz	1230MHz	1470MHz	1605MHz	1545MHz	1425MHz	1470MHz
Memory Clock	2250MHz	2000MHz	2000MHz	2000MHz	1750MHz	1750MHz	1750MHz
Memory Bandwidth	576.0GB/s	256.0GB/s	256.0GB/s	192.0GB/s	448.0GB/s	336.0GB/s	168.0GB/s
Cuda	9728	4608	3072	2560	6144	3840	2304
Tensor Core	304	144	96	80	192	120	72
RT Core	76	36	24	20	48	30	18
Max Display	4	4	4	4	4	4	4
Dimension	Type B(105*82mm)	Type A(70*82mm)	Type A(70*82mm)	Type A(70*82mm)	Type B(105*82mm)	Type B(105*82mm)	Type A(70*82mm)
Chipset Dimension	16*25*3mm	12.8*15.3*1.85mm	13*13*1.95mm	13*13*1.95mm	20*15*2.8mm	20*15*2.8mm	14.7*14*1.95mm
Bus Type	MXM 3.1(x16 4.0)	MXM 3.1(x8 4.0)	MXM 3.1(x8 4.0)	MXM 3.1(x8 4.0)	MXM 3.1(x16 4.0)	MXM 3.1(x16 4.0)	MXM 3.1(x8 4.0)
TDP	130/150W	65W	60W	65W	110/135W	100W	55W
Single-Precision FLOPS	38212GFLOPS	15711GFLOPS	12229GFLOPS	11835GFLOPS	17525GFLOPS	12361GFLOPS	6865GFLOPS
Double-Precision FLOPS	600GFLOPS	250.1GFLOPS	192.7GFLOPS	185.3GFLOPS	329.9GFLOPS	241.8GFLOPS	107.8GFLOPS
Pixel Rate	163.0GPixel/s	59.04GPixel/s	70.56GPixel/s	77.04GPixel/s	148.3GPixel/s	68.40GPixel/s	47.04GPixel/s
Texture Rate	442.3GTexel/s	177.1GTexel/s	141.1GTexel/s	128.4GTexel/s	296.6GTexel/s	171.0GTexel/s	105.8GTexel/s
DirectX	12 Ultimate (12_2)	12 Ultimate (12_2)	12 Ultimate (12_2)	12 Ultimate (12_2)	12 Ultimate (12_2)	12 Ultimate (12_2)	12 Ultimate (12_2)
OpenGL	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Cuda Version	8.9	8.9	8.9	8.9	8.6	8.6	8.6

Selected AI Accelerator Module (Quadro)

Product							
Model	**MMR5000B6-16G**	**MMR3500B6-12G**	**MMR2000A6-8G**	**MMA5000B6-16G**	**MMA4500B6-16G**	**MMA2000B6-8G**	**MMA1000A6-4G**
Chipset	RTX5000 Mobilty	RTX3500m	RTX2000m	A5000 Max-Q	A4500m	A2000m	A1000m
Memory	16G GDDR6 256bit	12G GDDR6 192bit	8G GDDR6 128bit	16G GDDR6 256bit	16G GDDR6 256bit	8G GDDR6 128bit	4G GDDR6 128bit
Chip Clock	1425MHz	1725MHz	1635MHz	900MHz	1020MHz	1387MHz	1192MHz
Boost	2115MHz	2250MHz	2115MHz	1575MHz	1575MHz	1815MHz	1627MHz
Memory Clock	2250MHz	2250MHz	2000MHz	1750MHz	2000MHz	1750MHz	1750MHz
Memory Bandwidth	576.0GB/s	432.0GB/s	256.0GB/s	448.0GB/s	512.0GB/s	224.0GB/s	224.0GB/s
Cuda	9728	5120	3072	6144	5888	2560	2048
Tensor Core	304	160	96	192	184	80	64
RT Core	76	40	24	48	46	20	16
Max Display	4	4	3	4	4	4	4
Dimension	Type B(105*82mm)	Type B(105*82mm)	Type A(70*82mm)	Type B(105*82mm)	Type B(105*82mm)	Type B(105*82mm)	Type A(70*82mm)
Chipset Dimension	25*16*3.0mm	20*15*2.8mm	29*29*1.7mm	20.4*20.4*2.9mm	20*20*3.0mm	14.8*14*1.9mm	29*29*2.0mm
Bus Type	MXM 3.1(x16 4.0)	MXM 3.1(x16 4.0)	MXM 3.1(x16 4.0)	MXM 3.1(x16 4.0)	MXM 3.1(x16 4.0)	MXM 3.1(x16 4.0)	MXM 3.1(x16 4.0)
TDP	115W	110W	56.5W	110W	80/130W	38/60/80W	36/58.8W
Single-Precision FLOPS	39582GFLOPS	23235GFLOPS	14176GFLOPS	17176GFLOPS	19352GFLOPS	9456GFLOPS	7652GFLOPS
Double-Precision FLOPS	686.6GFLOPS	371.6GFLOPS	239.7GFLOPS	344.8GFLOPS	317.5GFLOPS	155.1GFLOPS	124.1GFLOPS
Pixel Rate	236.9GPixel/s	144.0GPixel/s	101.5GPixel/s	129.6GPixel/s	116.6GPixel/s	37.66GPixel/s	36.48GPixel/s
Texture Rate	643.0GTexel/s	360.0GTexel/s	203.0GTexel/s	259.2GTexel/s	223.6GTexel/s	94.16GTexel/s	72.96GTexel/s
DirectX	12 Ultimate (12_2)	12 Ultimate (12_2)	12 Ultimate (12_2)	12 Ultimate (12_2)	12 Ultimate (12_2)	12 Ultimate (12_2)	12 Ultimate (12_2)
OpenGL	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Cuda Version	8.9	8.9	8.9	8.6	8.6	8.6	8.6

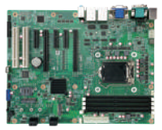
Selected Medical PCIe GPU Cards

Product			
Model	**RTX4090m 16GD6 3PH**	**RTX3050 6GD6 HP SFF**	**RTX A4000**
Chipset	NVIDIA GeForce RTX4090m	NVIDIA GeForce RTX3050	NVIDIA Quadro RTX A4000
Memory	16G GDDR6 256bit	6GB 96bit GDDR6	16G GDDR6 256bit
Shaders	9728SP	2304SP	6144SP
Chip Clock	1620MHz	1042MHz	735 MHz
Boost	2040MHz	/	1560 MHz
Memory Clock	2250MHz	1752MHz	14 GHz
Memory Bandwidth	576.0GB/s	168.0GB/s	448.0 GB/s
Output	3xDP1.4a + HDMI2.1	Display Port1.4 + HDMI2.1	4xDP1.4
External Power	1 x 8Pins	/	/
TDP	240W	70W	140W
Dimension	ATX/2Slot (267*111*42mm)	SFF/1 Slot (165*70*20mm)	SFF/1 Slot (165*70*20mm)
Single-Precision FLOPS	44527 GFLOPS	8685GFLOPS	19.2 TFLOPS
Double-Precision FLOPS	706.1 GFLOPS	136.9GFLOPS	599.0 GFLOPS

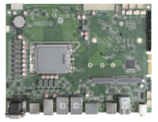
Selected AI Motherboard(ARM)

Product				
Model		**RK-356801**	**RK-356802**	**RK-358801**
CPU	Chipset	Rockchip RK3568	Rockchip RK3568	Rockchip RK3588
	ARM	4 x Cortex-A55	4 x Cortex-A55	4 x Cortex-A76(Big cores) + 4 x Cortex-A55(Little cores)
	Frequency	2.0GHz	1.8GHz	2.4GHz
GPU	GPU	Mali-G52	Mali-G52	Mali-G610 GPU MP4 Quad-core GPU，450GFLOFS
RAM	Type	LDDR4	LDDR4	LDDR4
	Max.	4G	8G(Option 4G，Default 2G)	16G（Option 8G）
Storage	Emmc	32GB	16GB(Option 8G/32G/64G/128G)	64GB
Expansion	SIM	1 x SIM	1 x Micro SIM	1 x SIM
	M.2	1 x M.2 M Key for NVME	1 x M.2 for 4G/5G/WIFI	1 x M.2 M Key for NVME 1 x M.2 B Key for NGFF
	Mini PCIe	1 x Mini PCIe	1 x Mini PCIe	-
	MIPI	1 x MIPI-DSI 1 x MIPI-CSI	1 x MIPI-DSI 40Pin 1 x MIPI-CSI	1 x MIPI-DSI 1 x MIPI-CSI
USB	Back Panel	1 x USB3.0 OTG	1 x USB3.0 OTG 2 x USB2.0	1 x USB3.0 OTG
	Pins	6 x USB2.0 Host	4 x USB2.0 4Pin 2.0	6 x USB2.0 Host
Serial		1 x RS485	-	1 x RS485
	Pin	2 x RS232 / TTL 2 x TTL Debug	1 x RS485 2 x RS232 3.3V/5V(Option TTL) 2 x TTL 3.3V/5V(Option RS232) 1 x TTL 3.3V	2 x RS232 / TTL 2 x TTL Debug
Display		1 x HDMI 2.0	1 x HDMI 2.0	1 x HDMI 2.04
	Pin	1 x eDP1.3 1 x LVDS	1 x eDP1.3 1 x LVDS	1 x eDP1.3 1 x LVDS
CAN	Front Panel	1 x CAN	1 x CAN	1 x CAN
Ethernet		2 x RJ45 10/100/1000M	2 x RJ45 10/100/1000M	2 x RJ45 10/100/1000M
Others	TP/IIC	1 x TP	1 x TP 6Pin 1.25mm	1 x TP
	ADC	3 x ADC	3 x ADC	3 x ADC
Power	Input	DC In 12V/3A	1 x DC In 12V/3A 1 x 4P 2.54mm	DC In 12V/3A
	Expansion power	Option 3.3V/5V/12V	5V/12V 2Pin 2.0mm	Option 3.3V/5V/12V
Physical	Size	145*122mm	145*122mm	145*122mm
OS	Android	Android11	Android11	Android11
	LINUX	Ubuntu18.04	Ubuntu18.04/Ubuntu20.04/ Buildroot/Debian	Ubuntu18.04/20.04
	Kirin/Harmony	KirinV10 SP1/Harmony 3.0	Kirin V10 SP1	Kirin V10 SP1

Selected AI Motherboard

Product						
Model		**EMA-1304**	**EMA-1302**	**EMA-7103**	**ITX-71101**	**EMB-3201**
Processor	CPU	Intel Raptor Lake/Alder Lake i3/i5/i7	Intel Skylake/Kaby Lake i3/i5/i7	Intel Tiger Lake-H i5/i7/i9	Intel Skylake-HQ	Intel Skylake / Kaby Lake-U i3/i5/i7
	Socket	FCLGA1700	FCLGA1151	Integrated	Integrated	Integrated
	Chipset	Intel PCH Q670	Intel PCH Q170	Intel PCH QM580	Intel PCH QM170	-
Memory	Technology	128G DDR5 12th 4800MT/s 13th 5200MT/s	64G DDR4 6th 1866/2133MHz 7th 2133/2400MHz	64G DDR4 3200MHz	32G DDR4 6th 2133MHz 7th 2400MHz	32G DDR4 2133MHz
	Socket	4 x U-DIMM	4 x U-DIMM	2 x SO-DIMM	2 x SO-DIMM	1 x SO-DIMM
Expansion	Mini PCIe	1 x Mini PCIe for WiFi/BT 1 x Mini PCIe for PCIe	1 x Mini PCIe for WiFi 3G/4G	-	-	-
	M.2	1 x M.2 for SATA/PCIe	1 x M.2 for SATA/SSD	1 x M.2 for PCIe x4 1 x M.2 for SATA & 4G/5G 1 x M.2 for WIFI	1 x M.2 for PCIe/SSD 1 x M.2 for SSD 1 x M.2 for WIFI/BT	1 x M.2 for NVME/SATA 1 x M.2 for 4G/5G
	MXM	-	-	1 x MXM 3.1	1 x MXM 3.1	-
	SIM	1 x SIM	-	1 x SIM	-	1 x SIM
	PCI-Express	1 x PCIe 16x GEN5 3 x PCIe 4x GEN4 1 x PCIe 4x GEN3	2 x PCIe 16x 2 x PCIe 4x 1 x PCIe 4x(by 1x)	1 x PCIe x4	1 x PCIe 4x	1 x PCIe x4
	PCI	2 x PCI	2 x PCI	-	-	-
Storage	SATA	4 x SATA3.0	4 x SATA3.0	1 x SATA3.0	1 x SATA3.0	1 x SATA3.0
	mSATA	-	1 x mSATA	-	-	-
Display	I/O	1 x VGA 1 x DP 1 x HDMI2.0 1 x HDMI1.4	1 x VGA 1 x DVI 1 x HDMI	1 x HDMI 1 x DP 1 x eDP or LVDS 1 x HDMI or DP	2 x HDMI 1 x DP 1 x eDP	1 x HDMI 1 x LVDS or eDP
USB	I/O	6 x USB3.0 7 x USB2.0	6 x USB3.0 7 x USB2.0	5 x USB3.0 2 x USB2.0	5 x USB3.0 2 x USB2.0	2 x USB3.0 6 x USB2.0
Ethernet	I/O	2 x RJ45 10/100/1000M	2 x RJ45 10/100/1000M	2 x RJ45 10/100/1000M/2.5GB	2 x RJ45 10/100/1000M	2 x RJ45 10/100/1000M
COM	I/O	1 x RS232/RS485/RS422 5 x RS232	1 x RS232/RS485/RS422 5 x RS232	1 x RS232	1 x R232	2 x RS232/RS485/RS422 4 x RS232
GPIO	I/O	1 x 8bit GPIO	1 x 8bit GPIO	-	-	1 x 8bit GPIO
Audio	I/O	1 x Line In 1 x Line Out 1 x MIC In	1 x Line In 1 x Line Out 1 x MIC In	1 x Line Out 1 x MIC In	1 x Line Out 1 x MIC In	1 x Line Out 1 x MIC In
Power	Power Input	ATX	ATX	1 x DC In(4P In) 18~26V 1 x ATX 2x2 4Pin	DC In 19V, Max 20A	DC In(ϕ5.5) 9~36V, Max 5A
Physical	Dimension	ATX(304.8*244mm)	ATX(304.8*244mm)	ITX(170*170mm)	ITX(170*170mm)	146*101mm

Selected AI Motherboard

Product			
Model		**EMA-8141**	**EMB-3204**
Processor	CPU	Intel Alder Lake-S/Raptor Lake-S/ Meteor Lake-S	Intel Elkhart Lake/Celeron
	Socket	LGA1700	Integrated
	Chipset	-	-
Memory	Technology	DDR5 13/14th 5600MT/s 12th 4800MT/s	DDR4 2400MHz
	Socket	2*SO-DIMM	1*SO-DIMM
Expansion	Mini PCIe	-	-
	M.2	-	1*M.2 Key-M(2242 / 2280) for NVMe 1*M.2 Key-E(2230) for WIFI/Bluetooth
	SIM	-	-
	PCI-Express	1*PCIe3.0 x4	-
	PCI	-	-
Storage	SATA	4*SATA3.0(7 Pins)	1*SATA3.0(7 Pins)
	mSATA	-	-
Display	I/O	1*DP(From CPU) 1*HDMI(From CPU) 3*DP(From GPU DP_A/B/D) 1*HDMI(From GPU DP_C)	2*HDMI 2.0 1*S Video 1*HDMI 2.0
USB	I/O	4*USB3.0 4*USB2.0	4*USB3.0 Type A 2*USB2.0 Type A
Ethernet	I/O	H610:2*RJ45 10/100/1000M Q670:4*RJ45 10/100/1000M	2*RJ45 10/100/1000M/2.5GB
COM	I/O	2*RS232/RS422/RS485	-
GPIO	I/O	-	-
Audio	I/O	1*Line Out 1*MIC In	1*Line Out
Power	Power Input	ATX input，support ATX/AT mode， DC ATX 24+8 input,support S0,S3,S4,S5	1*2 Pin
Physical	Dimension	243.8*180mm	146.3*118.6mm

Selected COMe Module

Product					
Model		**ECM-C114**			**EZT-E3950A**
Expansion	COMe	2*COM-E 220Pin			-
Processor	CPU	Intel Tiger Lake-U i3/i5/i7			Intel Atom x7 E3950
		i7-1165G7	i5-1135G7	i3-1115G4	-
	Core Number	4C	4C	2C	4
	Total Threads	8T	8T	4T	-
	Max. Speed	4.7 GHz	4.2 GHz	4.1 GHz	2.60 GHz
	TDP (W)	12W	8W	6W	10W
	Chipset	SOC			Apollo Lake
Memory	Max Capacity	64G			8G
	Technology	DDR4 3200MHz			LPDDR4 1600/2133/2400MHz
Storage	SATA	2*SATA3.0			1*SATA3.0
	eMMC	-			64GB
PCIe	PCI Express	2*PCIe x4 1*PCIe x1			1*PCIe 2.0 x4
Display	I/O	3*DDI(Option HDMI/DVI/DP) 1*VGA 1 x eDP to LVDS(Option eDP)			1*eDP to LVDS,Option eDP 1*HDMI 1*HDMI or DP
USB	I/O	4*USB3.0 8*USB2.0			2*USB3.0 4*USB2.0
Ethernet	Chipset	Intel®I211-AT			Intel®I211-AT
COM	COM	-			-
Audio	HDA	1*HDA			1*HAD
Other	GPIO	1*8bit GPIO			1*8bit GPIO
Power	Power Supply	ATX: VCC,VSB AT: VCC			DC AT: VCC
	Input Voltage	ATX:5VSB+12V AT:8.5~20V			5V±5%
Physical	Dimension	95*95mm			82*50mm

Selected COMe Module

Product						
Model		**ECM-H301**	**ECM-C132**	**ECM-6103**	**ECM-6401**	**ECM-6202**
Expansion	COMe	COM-HPC® Size C Module	2 x COM-E 220Pin	2 x COM-E 220Pin	2 x COM-E 220Pin	1 x COM-E 220Pin
Processor	CPU	Intel 13/12th Raptor Lake / Alder Lake FCLGA1700	Intel Alder Lake-U	Intel Tiger Lake-HE I3/I5/I7	Intel Xeon D / Intel Pentium	Intel Elkhart Lake
	i3/i5/i7/i9		7305E / i3-1215U / i3-1315U / i5-1350P / i7-1360P	i7-11850H / i5-11500H / i3-11100H	D-1548 / D1508	X6211E / J6426 / J6412
	Core Number	2C~16C	5C / 6C / 6C / 12C / 12C	8C / 6C / 4C	8 / 2	2 / 4 / 4
	Total Threads	2T~24T	5T / 8T / 8T / 16T / 16T	16T / 12T / 8T	- / -	2 / 4 / 4
	Max. Speed	3.6GHz~5.2GHz	1.0GHz / 4.4GHz / 4.5GHz / 4.6GHz / 5.0GHz	4.7 GHz / 4.5 GHz / 4.4 GHz	2.0 GHz / 2.2 GHz	3.0 GHz / 3.0 GHz / 2.6 GHz
	TDP (W)	≤65W	15W / 15W / 15W / 28W / 28W	45W / 45W / 45W	45W / 25W	6W / 10W / 10W
	Chipset	Intel PCH R680E	SOC	Intel PCH QM580	SOC	-
Memory	Max Capacity	Up to 128G	64G 4800MHz	128G 3200MHz	64G 2400MHz	16G 3200MT/s
	Technology	4 x SO-DIMM DDR5	2 x SO-DIMM DDR5	2 x SO-DIMM DDR4	2 x SO-DIMM DDR4	On Board LPDDR4
Storage	SATA	2 x SATA3.0(6Gbps)	2 x SATA3.0	4 x SATA3.0	2 x SATA3.0	2 x SATA3.0(6Gbps)
	eMMC	-	-	-	-	64GB On Board
PCIe	PCI Express	1 x PCIe x16 Gen5, or 2 x PCIe x 8 1 x PCIe x4 Gen4 (from CPU) 12 x PCIe x1 Gen4 (from PCH) 9 x PCIe x1 Gen3 1 x PCIe x1 Gen3 (reserved for BMC)	PEG: PCIe Gen4, 12 lanes (H series), Bitfurcate to 1 x8 PEG: PCIe Gen4, 4 lanes (P/U series), Bitfurcate to 1 x4 PCIe: PCIe Gen3, 4 lanes max up to 6 end devices, Default 5 lanes (5 x1, 2 x2 + 1 x1), Option 2 x4, 1 x4 + 2 x2 (Co-lay with SATA & Ethernet)	**1 x PCIe x16 4.0(Option 1 x PCIe x16、 2 x PCIe x8、1 x PCIe x8 + 2 x PCIe x4) 8 x PCIe x1 3.0(Option PCIe x4 or x2)**	1 x PCIe x16 1 x PCIe x8 7 x PCIe x1	1 x PCIe x4
Display	I/O	3 Ports DDI Support 8K Resolution	1 x LVDS Dual Chanel(Option eDP) 3 x DDI(Option HDMI/DisplayPort) 1 x VGA	3 x DDI(Option HDMI/DVI/DP) 1 x VGA 1 x LVDS(Option eDP)	-	1 x DDI(Option DP++) 1 x LVDS Single Chanel (Option DP)
USB	I/O	2 x USB 3.2 (Gen2X2); 4 X USB3.2 (Gen2x1); 8 x USB2.0	4 x USB3.0 8 x USB2.0	4 x USB3.2 8 x USB2.0	4 x USB3.0 4 x USB2.0	2 x USB3.0 8 x USB2.0
Ethernet	Chipset	INTEL i225 /i226-V	Intel®i225/i226-V	Intel®I225-AT	Intel®I211-AT	Intel®I225-v
COM	COM	2 x COM （2-Wire)	2 x COM	-	-	-
Audio	HDA	1 x HDA	1 x HDA	1 x HDA	-	1 x HDA
Other	GPIO	6 x GPI 6 x GPO	1 x 8bit GPIO	1 x 8bit GPIO	1 x 8bit GPIO	1 x 8bit GPIO
Power	Power Supply	Type ATX: Vin, VSB, AT: Vin	ATX: 12V,5VSB AT: 12V	ATX: VCC,VSB AT: VCC	ATX: VCC,VSB AT: VCC	ATX Vin AT
	Input Voltage	Vin: 12V VSB: 5V±5% RTC Battery: 2.0~3.3V	Vin: 8.5V~20V(±5%) VSB: 5±5% RTC Battery: 2.0V~3.3V	Vin: 8.5V ~ 20V VSB: 4.75V ~ 5.25 V RTC Battery: 2.0V ~ 3.3V	Supply Voltage Vin: 8.5V ~ 20V VSB: 4.75V ~ 5.25 V RTC Battery: 2.0V ~3.3V	Supply Voltage Vin: 9V~21V
Physical	Dimension	160*120 mm	95*95mm	95*125mm	95*125mm	84*55mm

Selected AI Medical Box PC

Product				
Model		**MIN-EC10(EMA-7112)**		
Processor	CPU	Intel Tiger Lake-H I5/I7/I9		
	Chipset	Intel PCH QM580		
	CPU	i5-11500H	i7-11850H	i9-11950H
	Base Frequency	2.4/2.9GHz	2.1/2.5GHz	2.1/2.6GHz
	Turbo Boost Freq	4.60GHz	4.90GHz	5.00GHz
	Core	6	8	8
	Cache	12MB	24MB	24MB
	CPU TDP	35/45W	35/45W	35/45W
Memory	Technology	64G DDR4 2 x SO-DIMM 3200MHz		
Expansion	M.2	1 x M.2 Key-M(2242 / 2280) for PCIe/SATA 1 x M.2 Key-B(2242 / 2260 / 2280) for SATA & 4G/5G 1 x M.2 Key-E(2230) for WIFI		
	MXM	1 x MXM 3.1 for GPU medule		
	SIM	1 x SIM		
Storage	SATA	1 x SATA3.0		
Display	I/O	1 x HDMI 1 x DP		
USB	I/O	3 x USB3.2 2 x USB2.0		
Ethernet	I/O	2 x RJ45 10/100/1000M/2.5GB		
Audio	I/O	1 x Line Out 1 x MIC In		
Other	Button	1 x Power Button 1 x RV Button 1 x Reset Button		
	LPC	1 x LPC		
Power	Power Input	1 x DC In(4P In) 18~26V		
Physical	Dimension	280*229.7*97.5mm		

Product				
Model		**CDM-2U03(EMA-7112)**		
Processor	CPU	Intel Tiger Lake-H I5/I7/I9		
	Chipset	Intel PCH QM580		
	CPU	i5-11500H	i7-11850H	i9-11950H
	Base Frequency	2.4/2.9GHz	2.1/2.5GHz	2.1/2.6GHz
	Turbo Boost Freq	4.60GHz	4.90GHz	5.00GHz
	Core	6	8	8
	Cache	12MB	24MB	24MB
	CPU TDP	35/45W	35/45W	35/45W
Memory	Technology	64G DDR4 2 x SO-DIMM 3200MHz		
Expansion	M.2	1 x M.2 Key-M(2242 / 2280) for PCIe/SATA 1 x M.2 Key-B(2242 / 2260 / 2280) for SATA & 4G/5G 1 x M.2 Key-E(2230) for WIFI		
	MXM	1 x MXM 3.1 for GPU medule		
	SIM	1 x SIM		
Storage	SATA	1 x SATA3.0		
Display	I/O	1 x HDMI 1 x DP		
USB	I/O	3 x USB3.2 2 x USB2.0		
Ethernet	I/O	2 x RJ45 10/100/1000M/2.5GB		
Audio	I/O	1 x Line Out 1 x MIC In		
Other	Button	1 x Power Button 1 x RV Button 1 x Reset Button		
	LPC	1 x LPC		
Power	Power Input	1 x DC In(4P In) 18~26V		
Physical	Dimension	230*176*83.5mm		

Selected AI Medical Box PC

Product							
Model		**CDM-2U01(EMA-7132)**					
Processor	CPU	Intel 12/13th Alder Lake-H i3/i5/i7/i9					
	Chipset	-					
	CPU	i5-12450H	i7-12700H	i9-12900H	i5-13500H	i7-13700H	i9-13900H
	Base Frequency	2.0GHz	2.3GHz	2.5GHz	2.6GHz	2.4GHz	2.6GHz
	Turbo Boost Freq	4.4GHz	4.7GHz	5.0GHz	4.7GHz	5.0GHz	5.4GHz
	Core	4+4	6+8	6+8	4+8	6+8	6+8
	Cache	12MB	24MB	24MB	24MB	24MB	24MB
	CPU TDP	45W	45W	45W	45W	45W	45W
Memory	Technology	DDR5 13th 5600MT/s 12th 4800MT/s					
Expansion	M.2	1*M.2 Key-M(2242/2280) for PCIe x4 NVMe 1*M.2 Key-B(3042/3052) for 4G/5G 1*M.2 Key-E(2230) for WIFI					
	SIM	1*SIM					
Storage	SATA	2*SATA3.0(7 Pins)					
Display	I/O	1*DP++ 1*HDMI					
USB	I/O	4*USB3.1					
Ethernet	I/O	4*RJ45 10/100/1000M/2.5GB					
Audio	I/O	1*Line Out 1*MIC In					
Other	Button	1*RESET Button(Header Pin) 1*POWER Button(Header Pin)					
	LPC	-					
Power	Power Input	1*DC In(4P In)					
Physical	Dimension	170*170mm					

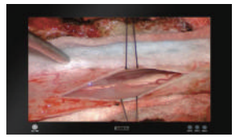
Product		
Model		**MIN-M01(EMA-8141)**
Processor	CPU	Intel Alder Lake-S/Raptor Lake-S/Meteor Lake-S
	Chipset	-
	CPU	-
	Base Frequency	-
	Turbo Boost Freq	-
	Core	-
	Cache	-
	CPU TDP	-
Memory	Technology	DDR5 13/14th 5600MT/s 12th 4800MT/s
Expansion	M.2	1*M.2 Key M for PCIe(Only Q670) 1*M.2 Key E for WIFI/BT
Storage	SATA	4*SATA3.0(7 Pins)
Display	I/O	1*DP(From CPU) 1*HDMI(From CPU) 3*DP(From GPU DP_A/B/D) 1*HDMI(From GPU DP_C)
USB	I/O	4*USB3.0 4*USB2.0
Ethernet	I/O	H610:2*RJ45 10/100/1000M Q670:4*RJ45 10/100/1000M
Audio	I/O	1*Line Out 1*MIC In
Power	Power Input	ATX input，support ATX/AT mode,DC AT
Physical	Dimension	243.8*180mm

Medical Diagnostic/Endoscope Display

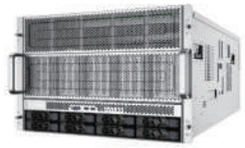
Product	
Model	MDC-G2201
Size	21.3”
Display Area	432.0（H）*324.0（V）mm
Resolution	1600（H）*1200（V）dots
Dot Pitch	0.27（H）*0.27（V）mm
LUT Bit Depth	16bit arithmetic 14bit architecture
Default Setup	Dicom（Default） L255=500±10cd/m2（White） Note: The brightness value at the center of the display at the highest grayscale level.
Contrast	1500:1（Min.）
Color depth	8bit
Viewing Angle	R/L 176°（Typ.） U/D 176°（Typ.）
Backlight	LED with PWM dimming
Answering Time	16ms（Typ.）
Brightness Uniformity	δW=1.25（Typ.）
Surface Treatment	Anti-glare（Haze 25%，3H）
Power	AC220V

Product pictures	
Model	MDC-C2701
Size	27”
Display Area	596.736（H）*335.664（V）mm
Resolution	2560（H）*1440（V）dots
Dot Pitch	0.2331（H）*0.2331（V）mm
LUT Bit Depth	16bit arithmetic 14bit architecture
Default Setup	Dicom（Default） L255=350±20cd/m2（White） Note: The brightness value at the center of the display at the highest grayscale level.
Contrast	1000:1（Typ.） 700:1（Min.）
Color depth	16.7M 8bit
Viewing Angle	R/L 178°（Typ.） U/D 178°（Typ.）
Backlight	LED with PWM dimming
Answering Time	20ms（Tr+Tf）
Brightness uniformity	δW=1.25（Typ.）
Surface Treatment	Anti-glare（Haze 25%，3H）
Power	24V

Operating/Surgical Display

Product	
Display Size	55” / 65”
Display Area	1209.6 (H) × 680.4(V)mm
Resolution	3840 x 2160 dots (UHD)
Dot Pitch	0.315(H) x 0.315(V) mm
Luminance [cd/m^2]	650 Typical. , 500 Minimum. (Native)
Preset Value	Gamma2.2 (default), L max = 400 cd/m2(white screen)
Gamma Mode	Gamma1.8, Gamma2.0, Gamma2.2, Gamma2.4, Gamma2.6,DICOM, Native
Multi-window	1~2 windows, PIP(picture in picture), PBP(picture by picture)
Remote Control Mode	UART instruction OSD
Contrast	1200:1 (Typ.), 800:1(Min.)
Viewing Angle	R/L 178 degree (Typ.), U/D 178 degree (Typ.)
Response Time	8ms (Typ.)
Backlight	LED backlight, PWM dimming
Surface Treatment	Anti-glare (Haze 4%, 6H)
Display Port	DP*1, HDMI*1, DVI*2, SDI*2, RS232*1, USB*3
Power	AC220V
Surface Hardness	≥6H
Light Transmittance	> 85%
Stalinite Thickness	3 mm
Haze	4%±2%
Bonding Method	Optical liquid adhesive full lamination technology

AI GPU Server

Product	
Form Factor	7U Rackmount
CPU	2x 4th/5th Gen Intel Xeon Scalable, up to 350W
Memory	32x DDR5 DIMM, 5600MHz (RDIMM/3DS RDIMM)
RAID	Optional 12Gb/s SAS HBA/RAID
GPU	8-10x GeForce GPUs (triple-fan, 600W TDP)
PCIe Slots	11x PCIe 5.0; 1x OCP 3.0 NIC (4x10GbE/2x25Gb SFP28 optional)
Storage	8x SAS/SATA HDDs; 2-4x U.2 NVMe SSDs; 2x M.2 (PCIe 4.0/SATA)
I/O	Front: 2x USB 3.0, VGA
	Rear: 2x USB 3.0, VGA, COM, RJ45 management
Cooling	Hot-swap redundant fans
Power Supply	4x CRPS (2000W/2700W/3200W/3600W), 2+2/3+1 redundancy
Management	BMC (IPMI 2.0, Redfish, KVM)
Security	TPM/TCM optional; chassis intrusion detection
Dimensions	448mm(W) x 306mm(H) x 886mm(D)
Temperature	Operation: 5°C–35°C
	Storage: -40°C–65°C
Humidity	Operation: 8–90% RH
	Storage: 5–95% RH
OS Support	Windows Server, RHEL, CentOS, Ubuntu