



Drive your AI Dream Powered by Realtimes

*Applications: Deep learning Machine Learning
High Performance Computing Video processing
Ray Tracing Inference Smart Camera
Autonomous Machines Autonomous Vehicles*

— Realtimes Beijing Technology Co.,LTD. —

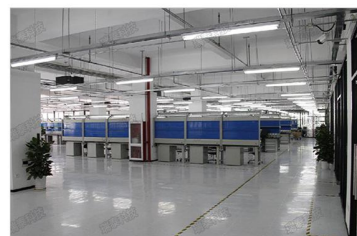
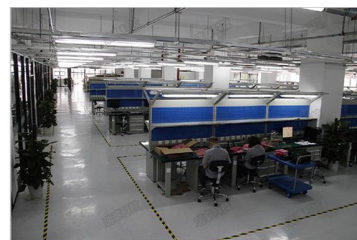
Realtimes Eechnology—a NVIDIAEcosystem Partner

Professional provider of NVIDIA Jetson™ platform carrier board,
Feiyun smart box and application suite

Realtimes (Beijing) Technology Co., Ltd. is a national high-tech enterprise integrating design and development, manufacturing, and system integration in the field of embedded computing. The company adheres to the people-oriented principle and serves global customers with technological innovation.

As a partner of Nvidia's NVIDIA® global ecological chain, Realtimes has dedicated a professional team with rich design experience to the development of NVIDIA® Jetson™ platform carrier boards, Feiyun smart boxes and application suites, providing industry users with low-cost, high-reliability Product-level solutions enable them to get rid of the risk of hardware platform construction, so as to focus on application-level development, and quickly launch overall solutions for specific application markets. Realtimes software and hardware technical team can also provide users with professional technical support services for edge computing-based AI application development, including providing users with code debugging, demonstration, camera debugging and other supporting technical services, as well as professional users with hardware customization services ODM service.

Realtimes has strong R&D capabilities and large-scale supporting production capabilities, focusing on the construction of large-volume low-cost supply guarantee capabilities. The 3000 square meter production test base can meet large-volume continuous supply.



Turn-key solution

OEM&ODM Service

Teshspport Service

LOW COST AND HIGH RELIABILITY
ISO 9001:2015 CERTIFICATED



PRODUCT SERVICE

With experienced hardware engineers and software engineers, they have high-level hardware design experience, manufacturing experience, software development experience, proficient in various popular embedded hardware platforms and embedded operating systems, and can provide users with demand analysis, Project establishment, software and hardware selection, R&D risk assessment and control, project development, prototype finalization and other all-round support and guarantee services.



APPLICATION AREA



COMPUTER IMAGING

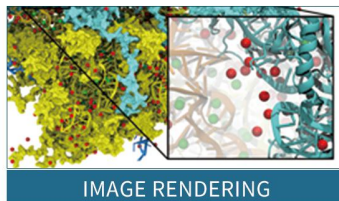


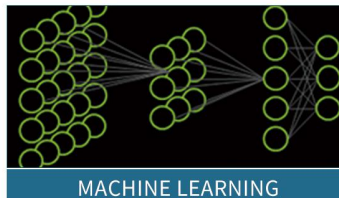
IMAGE RENDERING



FLOATING POINT ARITHMETIC



COMPUTER VISION



MACHINE LEARNING



ENCODE DECODE

APPLICATION SCENARIOS



AUTOMATED INDUSTRY



WAREHOUSE LOGISTICS



PRECISION AGRICULTURE



RETAIL TERMINAL



SERVICE ROBOT



SMART CITY



MEDICAL INSURANCE



SCIENTIFIC RESEARCH

Core module

JETSON TX2 CORE MODULE

AI performance: 1.33 TFLOPS

GPU: 256-core NVIDIA Pascal™ GPU

CPU: Dual-core Denver 264-bit CPU and
quad-core Arm® Cortex®-A57 MPCore processor

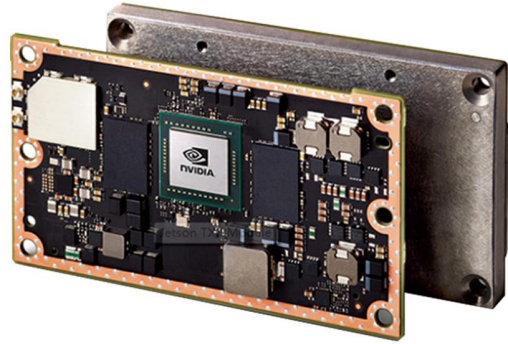
Memory: 8 GB 128-bit LPDDR4 59.7GB/s

Storage: 32 GB eMMC 5.1

Video encode: 1x 4K @ 60 (HEVC) | 3x 4K @ 30 (HEVC) | 4x 1080p @ 60 (HEVC)

Video decode: 2x 4K @ 60 (HEVC) | 7x 1080p @ 60 (HEVC) | 20x 1080p @ 30 (HEVC)

Power: 7.5W | 15W



JETSON TX2 4GB CORE MODULE

AI performance: 1.33 TFLOPS

GPU: 256-core NVIDIA Pascal™ GPU

CPU: Dual-core Denver 264-bit CPU and
quad-core Arm® Cortex®-A57 MPCore processor

Memory: 4 GB 128-bit LPDDR4 51.2GB/s

Storage: 16 GB eMMC 5.1

Video encode: 1x 4K @ 60 (HEVC) | 3x 4K @ 30 (HEVC) | 4x 1080p @ 60 (HEVC)

Video decode: 2x 4K @ 60 (HEVC) | 7x 1080p @ 60 (HEVC) | 20x 1080p @ 30 (HEVC)

Power: 7.5W | 15W



JETSON TX2 Industrial CORE MODULE

AI performance: 1.26 TFLOPS

GPU: 256-core NVIDIA Pascal™ GPU

CPU: Dual-core Denver 264-bit CPU and
quad-core Arm® Cortex®-A57 MPCore processor

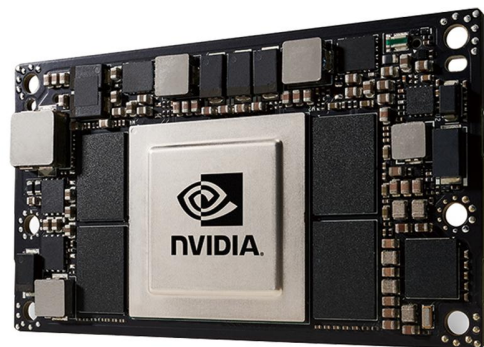
Memory: 8 GB 128-bit LPDDR4 (ECC Support) 51.2GB/s

Storage: 32 GB eMMC 5.1

Video encode: 1x 4K @ 60 (HEVC) | 3x 4K @ 30 (HEVC) | 4x 1080p @ 60 (HEVC)

Video decode: 2x 4K @ 60 (HEVC) | 7x 1080p @ 60 (HEVC) | 20x 1080p @ 30 (HEVC)

Power: 10W | 20W



1

RTSO-9001 CARRIER BOARD

JETSON TX2、TX2I、TX2-4GB Core module dedicated carrier board

Size: 87 x 57 x 40 mm

Weight: 85g

I/O: 1 x miniPCIe socket&1 x mSATA

2 x RS-232/422/485、1 x miniHDMI

2 x USB 3.0、1 x micro SD

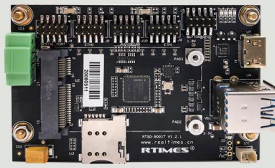
2 x GbE、1 x micro SIM

2 x CAN、3 x MIPI(4lane)、1 x Audio

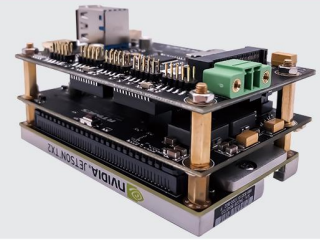
Power: +7V — +19V

Operating temperature: -40 ~ +85 °C

RTSO-9001



RTSO-9001+TX2



2

RTSO-9002 CARRIER BOARD

JETSON TX2、TX2I、TX2-4GB Core module dedicated carrier board

Size: 87 x 50 x 16.63 mm

Weight: 38.7g

I/O: 1 x miniPCIe socket/1 x mSATA

4 x 3.3V UART、2 x MIPI(4lane)

2 x USB 3.0、1 x micro SD

1 x GbE、1 x micro SIM

2 x CAN、1 x Micro HDMI、1 x I²C

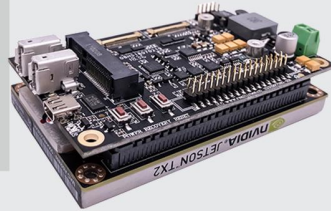
Power: +7V — +19V

Operating temperature: -40 ~ +85 °C

RTSO-9002



RTSO-9002+TX2



3

RTSO-9002U CARRIER BOARD

JETSON TX2、TX2I、TX2-4GB Core module dedicated carrier board

Size: 87 x 50 x 22 mm

Weight: 38.7g

I/O: 1 x miniPCIe socket/1 x mSATA

4 x 3.3V UART、2 x MIPI(4lane)

2 x USB 3.0、1 x micro SD

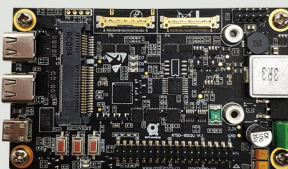
1 x GbE、1 x micro SIM

2 x CAN、1 x Micro HDMI、1 x I²C

Power: +7V — +19V

Operating temperature: -40 ~ +85 °C

RTSO-9002U



RTSO-9002U+TX2



4

RTSO-9003(U) CARRIER BOARD

JETSON TX2、TX2I、TX2-4GB Core module dedicated carrier board

Size: 87 x 50 x 23 mm

Weight: 42.6g

I/O: 2 x 3.3V UART、1 x HDMI

2 x USB 3.0、1 x USB 2.0

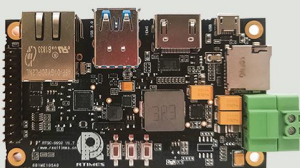
1 x GbE、1 x micro SD

2 x CAN、1 x I²C

Power: +7V — +19V

Operating temperature: -40 ~ +85 °C

RTSO-9003U



RTSO-9003+TX2



Core module

JETSON NANO B01 CORE MODULE

AI performance: 472 GFLOPS

GPU: 128-core NVIDIA Maxwell™ GPU

CPU: Quad-core ARM Cortex-A57 MPCore processor

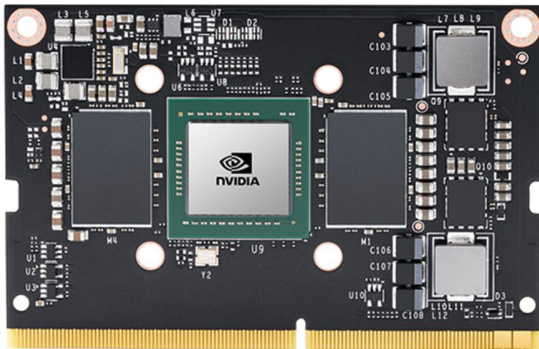
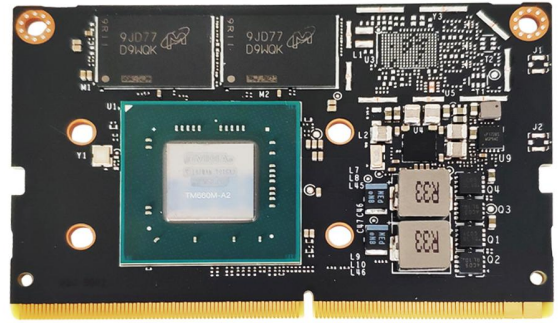
Memory: 4 GB 64-bit LPDDR4 25.6GB/s

Storage: 16 GB eMMC 5.1 flash memory

Video encode: 1x 4K @ 30 (HEVC) | 2x 1080p @ 60 (HEVC)

Video decode: 1x 4K @ 60 (HEVC) | 4x 1080p @ 60 (HEVC)

Power: 5W | 10W



JETSON TX2 NX CORE MODULE

AI performance: 1.33 TFLOPS

GPU: 256-core NVIDIA Pascal™ GPU

CPU: Dual-core Denver 264-bit CPU and quad-core Arm® Cortex®-A57 MPCore processor

Memory: 4 GB 128-bit LPDDR4 51.2GB/s

Video encode: 1x 4K @ 60 (HEVC) | 3x 4K @ 30 (HEVC) | 4x 1080p @ 60 (HEVC)

Video decode: 2x 4K @ 60 (HEVC) | 7x 1080p @ 60 (HEVC) | 20x 1080p @ 30 (HEVC)

Power: 7.5W | 15W

JETSON XAVIER NX CORE MODULE

AI performance: 21 TOPS

GPU: 384-core NVIDIA Volta™ GPU with 48 Tensor Cores

CPU: 6-core NVIDIA Carmel ARM®v8.2 64-bit CPU

6MB L2 + 4MB L3

Memory: 8 GB 128-bit LPDDR4x 51.2GB/s

Storage: 16 GB eMMC 5.1

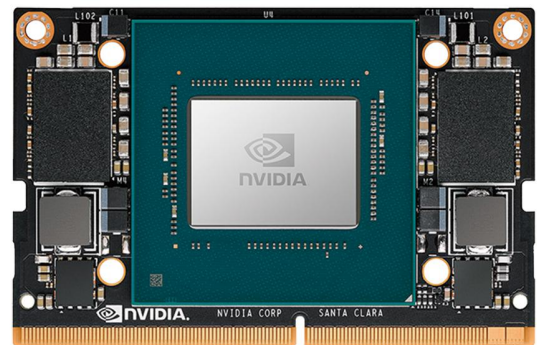
Video encode: 2x 4K60 | 4x 4K30 | 10x 1080p60 | 22x 1080p30 (H.265)

2x 4K60 | 4x 4K30 | 10x 1080p60 | 20x 1080p30 (H.264)

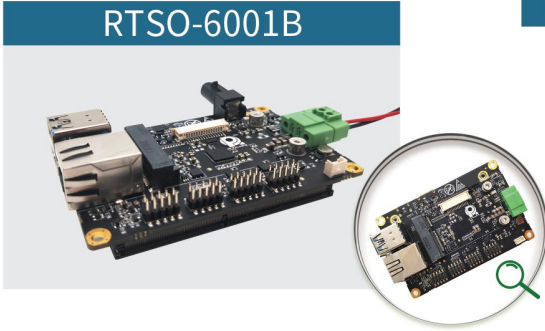
Video decode: 2x 8K30 | 6x 4K60 | 12x 4K30 | 22x 1080p60 | 44x 1080p30 (H.265)

2x 4K60 | 6x 4K30 | 10x 1080p60 | 22x 1080p30 (H.264)

Power: 10W | 15W



RTSO-6001B



1

RTSO-6001B CARRIER BOARD

JETSON NANO B01 Core module dedicated carrier board

Size: 90mm×58mm×23mm

Weight: 56g

I/O: 1 x GbE, 1 x mini-PCle, 1 x mini-HDMI, 1 x MIPI CSI-2/2 Lane,
1 x USB OTG, 1 x USB 2.0, 1 x USB 3.0, 2 x I2C, 2 x SPI,
2 x UART, (12xGPIO multiplexing), Micro SIM, 1 x microSD

Power: +5V

Operating temperature: -40 ~ +80 °C



2

RTSO-6001(E) CARRIER BOARD

JETSON NANO B01 Core module dedicated carrier board

Size: 87mm×57mm×26.37mm

Weight: 56g

I/O: 1 x GbE, 1 x mini-PCle, 1 x mini-HDMI, 2 x MIPI CSI-2/2 Lane,
1 x USB OTG, 1 x USB 3.0, 1 x USB 2.0,
2 x I2C, 1 x SPI, 2 x UART, (12xGPIO multiplexing),
1 x 128G EMMC(6001E), 1 x Micro SIM, 1 x Micro SD

Power: +12V

Operating temperature: -40 ~ +80 °C

RTSO-6001



3

RTSO-6002(E) CARRIER BOARD

JETSON XAVIER NX/TX2 NX Core module dedicated carrier board

Size: 87mm×57mm×26.37mm

Weight: 56g

I/O: 1 x GbE, 1 x mini-PCle, 1 x mini-HDMI, 2 x MIPI CSI-2/2 Lane,
1 x USB OTG, 1 x USB 3.0, 1 x USB 2.0,
2 x I2C, 1 x SPI, 2 x CAN, 2 x UART, (12xGPIO multiplexing)
4G module (optional), 1 x Micro SIM, 1 x 128G EMMC(6002E)

Power: +12V

Operating temperature: -40 ~ +80 °C

RTSO-6002



4

RTSO-6003(E) CARRIER BOARD

JETSON NANO B01/XAVIER NX/TX2 NX Core module dedicated carrier board

Size: 150mm×94mm×28mm

Weight: 165g

I/O: 1 x GbE, 4 x POE GbE, 1 x HDMI, 1 x Mini HDMI, 1 x USB OTG,
1 x USB 3.0, 1 x M.2 KEY M, 1 x M.2 KEY E, 1 x 128G EMMC(6003E),
1 x RTC Battery interface, 1 x FAN interface, 1 x Isolated
communication port(485、CAN、4 x I/O), 1 x POE Power
connector, 1 x Multi-function pin, 1 x High-speed connector

Power: +12V

Operating temperature: -40 ~ +80 °C

RTSO-6003



5

RTSO-6003L Carrier board

JETSON NANO B01/Xavier NX/TX2 NX Core module dedicated carrier board

Size: 150mm×94mm×28mm

Weight: 165g

I/O: 5 x GbE, 1x HDMI, 1x Mini HDMI, 1 x USB OTG,

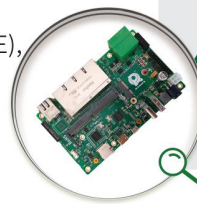
1 x USB 3.0, 1 x M.2 KEY M, 1 x M.2 KEY E, 1 x 128GEMMC(6003LE),

1 x RTC Battery interface, 1 x FAN interface, 1 x Isolated communication port(485, CAN, 4 x I/O), 1 x POE Power connector, 1 x Multi-function pin, 1 x High-speed connector

Power: +12V

Operating temperature: - 40 ~ + 80 °C

RTSO-6003L



6

RTSO-6004 Carrier board

JETSON NANO B01/Xavier NX/TX2 NX Core module dedicated carrier board

Size: 139mm×101mm×38mm

Weight: 130.4g

I/O: 2 x GbE, 1 x M.2-KEY-B, 1 x M.2-KEY-E, 1 x HDMI, 1 x USB OTG,

4 x USB3.0/USB3.1, 1 x Debug UART, 5G module (optional),

1 x Micro SIM, 1 x Micro SD, 2 x CAN, 2 x RS485, 4 x GPIO(3.3V)

Power: +12V

Operating temperature: - 40 ~ + 80 °C

RTSO-6004



JETSON AGX XAVIER CORE MODULE

AI performance: 32 TOPS

GPU: 512-core NVIDIA Volta™ GPU with 64 Tensor Cores

CPU: 8-core NVIDIA Carmel Armv8.2 64-bit CPU

8MB L2 + 4MB L3

Memory: 32 GB 256-bit LPDDR4x 136.5GB/s

Storage: 32 GB eMMC 5.1

Power: 10W | 15W | 30W



JETSON AGX XAVIER INDUSTRIAL CORE MODULE

AI performance: 30 TOPS

GPU: 512-core NVIDIA Volta™ GPU with 64 Tensor Cores

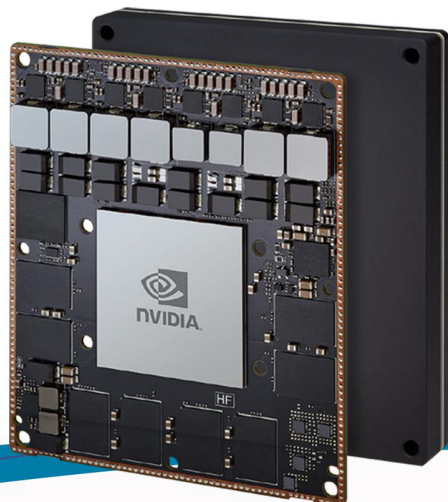
CPU: 8-core NVIDIA Carmel Arm®v8.2 64-bit CPU

8MB L2 + 4MB L3

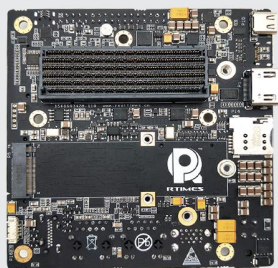
Memory: 32 GB 256-bit LPDDR4x (ECC support) 136.5GB/s

Storage: 64GB eMMC 5.1

Power: 20 W | 40 W



RTSO-1001



1

RTSO-1001 Carrier board

JETSON AGX XAVIER、XAVIER INDUSTRIAL Core module dedicated carrier board

Size: 105mm×105mm×29.5mm

Weight: 105g

I/O: 2 x HDMI, 1 x Micro SD/UFS, 1 x M.2 KEY E, 2 x M.2 KEY M,
2 x GbE, 2 x USB 3.0, 2 x USB 3.1, 1 x MIPI (6 x 2 LANE/4 x 4 LANE),
1 x Mini PCIe, 3 x UART, 1 x SPI, 1 x I2C, 1 x I2S, 4 x GPIO, 2 x CAN

Power: +9V~+20V

Operating temperature: - 40 ~ + 85 °C

VIDEO ACCESS PLAN

Product display	Features	Host interface	Input characteristics	Size(mm)	Power
 RTSV-6901 Video capture card	Single channel SDI Video input	Mini-PCIe	Input video supports up to 2048x1080 resolution	30 x 51	<3.62W
 RTSV-6902 Video capture card	Dual channel SDI Video input	M.2 Type-M	Input video supports up to 2048x1080 resolution	M.2 2280 Standard size	<3.38W
 RTSV-6904 Video capture card	Four-channel SDI Video input	M.2 Type-M	Input video supports up to 2048x1080 resolution	M.2 2280 Standard size	<7.16W
 RTSV-6906 Video capture card	Single channel 4K SDI Video input	M.2 Type-M	Input video supports up to 4096x2160 resolution	M.2 2280 Standard size	<7.16W
 RTSV-6911i Video capture card	Eight channel analog Video input	Mini-PCIe	8 channels NTSC/PAL video input, 8 channels D1 full bit rate video capture	30 x 51	—
 RTSV-6941 Video capture card	Single channel HDMI Video input	Mini-PCIe	Input video supports up to 2048x2160 resolution	30 x 51	<3.62W
 RTST-GMSL001 Adapter board	GMSL camera Video input	High-speed connector	Currently compatible with cameras such as Senyun and Cheetah	54.3 x 104.6	—

CAMERA SHOW



➤ Leopard MIPI-CSI Camera - IMX185

- Active pixel: 1937Hx1217V
- Pixel size(um): 3.75 x 3.75
- Camera interface: MIPI output
- Module size(mm): 38 x 38
- Weight: 56g



➤ Raspberry Pi MIPI-CSI Camera

- Active pixel: 3280Hx2464V
- Pixel size(um): 500万像素
- Camera interface: MIPI output
- Module size(mm): 25 x 24 x 9
- Weight: 3g



➤ Leopard MIPI-CSI Camera - IMX274

- Active pixel: 3864Hx2196V
- Pixel size(um): 1.62 x 1.62
- Camera interface: MIPI output
- Module size(mm): 38 x 38
- Weight: 54g



➤ FPD-LINK Camera

- Active pixel: 1920Hx1080V
- Pixel size(um): 3 x 3
- Camera interface: Coaxial
- Module size(mm): 30 x 30 x 22.5
- Weight: <50g

CUSTOMIZED PRODUCTS AND SOLUTIONS



1U CHASSIS



2U CHASSIS

SMART
CAMERA



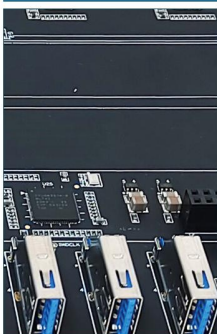
AV
SMART BOX



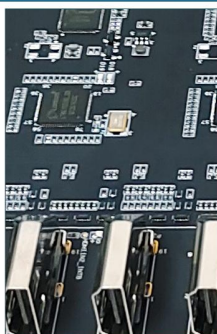
MEDICAL
SMART BOX



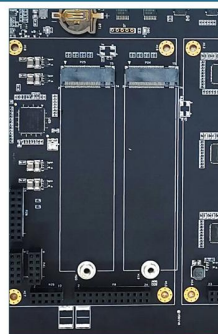
NX CAR
SMART BOX



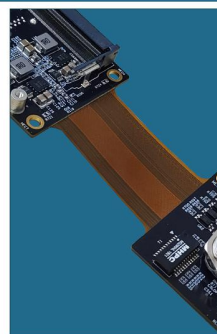
Multi-USB
interface solution



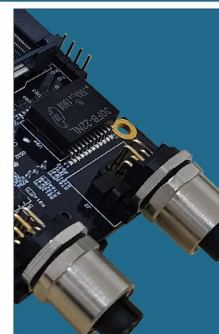
Multi-HDMI
Video access plan



Multi-SSD,
capture card
Scalable solution



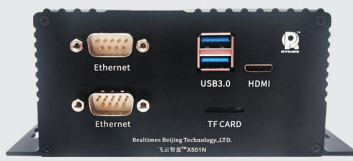
Alien structure
Soft connection
scheme



Reinforced
Interface design



Multi-channel AHD
Video access plan



X501N



X502N



X503N



Z505U

FEIYUN SMART BOX PARAMETER COMPARISON TABLE

Model	X501N	X502N	X503N	Z505U
Built-in core processor	TX2/TX2i/TX2 4GB	TX2/TX2i/TX2 4GB	TX2/TX2i/TX2 4GB	TX2/TX2i/TX2 4GB
4G support	Support (optional)	Support (optional)	N	N
Video Output	1 x miniHDMI	1 x Micro HDMI	1 x HDMI	1 x HDMI
Serial port	2 x COM	2 x COM	2 x COM	
USB	2 x USB 3.0	2 x USB 3.0	1 x USB 2.0 OTG, 2 x USB 3.0	1 x USB 2.0 OTG, 2 x USB 3.0
Ethernet	2 x GbE	1 x GbE	1 x GbE	1 x GbE
Audio	1 x Audio			
Storage	micro SD & mSATA	micro SD & mSATA	micro SD	micro SD
CAN	2 x CAN	2 x CAN	2 x CAN	2 x CAN
GPIO	4 x GPIO	4 x GPIO	4 x GPIO	4 x GPIO
Antenna	4 x Antenna	4 x Antenna	2 x Antenna	2 x Antenna
power input	+7V—+19V	+7V—+19V	+7V—+19V	+7V—+19V
Size(mm)	155 x 147 x 61	102 x 147 x 61	102 x 147 x 61	117 x 68 x 60
Weight	≈645.5g	≈495g	≈480g	≈541g
Operating temperature	-20~+60°C	-20~+60°C	-20~+55°C	-25~+65°C
thermal solution	Passive	Passive	Passive	Active
Certification	CCC&CE	CCC&CE	CCC&CE	CCC&CE

Whole machine solution

JETSON NANO/XAVIER NX/AGX XAVIER FEIYUN SMART BOX



Z506



Z603L



X508



X509



Z603



Z604



Z508



Z509

FEIYUN SMART BOX PARAMETER COMPARISON TABLE

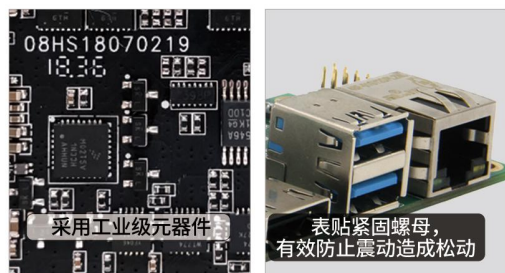
Model	Z506	Z603	Z603L	Z604	X508	Z508	X509	Z509
Built-in core processor	Nano	Nano/Xavier NX/TX2 NX	Nano/Xavier NX/TX2 NX	Nano/Xavier NX/TX2 NX	AGX Xavier	AGX Xavier	Xavier_NX/ TX2_NX	Xavier_NX/ TX2_NX
4G/5G support	Y(optional)			WiFi&5G(optional)	Y(optional)	Y(optional)	Y(optional)	Y(optional)
Video Output	1x Mini HDMI	1x HDMI 1x Mini HDMI	1x HDMI 1x Mini HDMI	1x HDMI	2x HDMI	2x HDMI	1x Mini HDMI	1x Mini HDMI
Serial Port	2x 3.3V UART	1x RS485	1x RS485	1x 3.3V UART 2x RS485	3x 3.3V UART	3x 3.3V UART	2x 3.3V UART	2x 3.3V UART
USB	1x USB 2.0 OTG, 1x USB2.0, 1x USB 3.0	1x USB 2.0 OTG, 1x USB3.0	1x USB 2.0 OTG, 1x USB3.0	4x USB 3.0 1x Micro USB	2x USB3.0, 2x USB 3.1	2x USB3.0, 2x USB 3.1	1x USB 2.0 OTG, 1x USB2.0, 1x USB 3.0	1x USB 2.0 OTG, 1x USB2.0, 1x USB 3.0
Ethernet	1x GbE	1+4(POE)xGbE	5xGbE	2xGbE	2xGbE	2xGbE	1xGbE	1xGbE
Storage	micro SD	micro SD 1x M.2(Key M)	micro SD 1x M.2(Key M)	micro SD 1x M.2(Key M)	micro SD 2x M.2(Key M)	micro SD 2x M.2(Key M)	micro SD	micro SD
I2C					1xI2C,1xI2S 1xSPI	1xI2C,1xI2S 1xSPI		
CAN		1x CAN	1x CAN	2x CAN	2x CAN 2.0B	2x CAN 2.0B		
GPIO	Multiplexing with serial port	4x	4x	4x	4x	4x	Multiplexing with serial port	Multiplexing with serial port
WiFi	Y(optional)	Y(optional)	Y(optional)	Y(optional)	Y(optional)	Y(optional)	Y(optional)	Y(optional)
Power input	+12V	+12V	+12V	+12V	+9V~+20V	+9V~+20V	+12V	+12V
Size(mm)	96x92x37.87	170x94x37.5	170x94x37.5	155x100x38	150x127.8x61.85	181x121x63	115x70x61	109.1x77x46
Weight	≈ 406g	≈ 626g	≈ 626g	≈ 659.5g	≈ 1240g	≈ 1302.9g	≈ 365g	≈ 406g
Temperature	-25°C~+65°C	-20°C~+60°C	-20°C~+60°C	-20°C~+60°C	-20°C~+55°C	-20°C~+60°C	-20°C~+65°C	-20°C~+65°C
thermal solution	Passive	Passive	Passive	Passive	Passive	Active	Active	Passive
Certification	CCC&CE				CCC&CE	CCC&CE	CCC&CE	CCC&CE

* Z506 / X509 / Z509 Feiyun Smart Box 4G or WiFi function uses Mini PCIe interface, only one can be selected

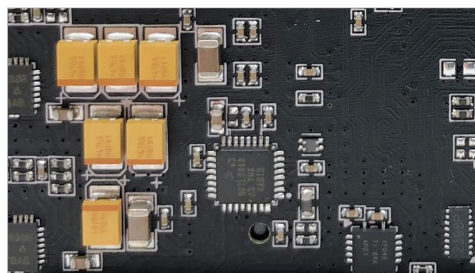
** Z603 / Z603L / Z604 Feiyun Smart Box WiFi uses M.2 Key E interface

CRAFTSMANSHIP AND GUARANTEE

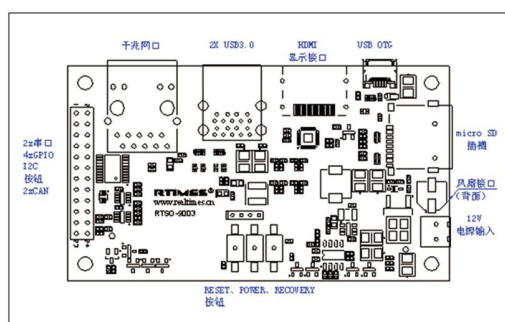
No:1 Industrial grade components,high reliability design



No:2 Overvoltage, reverse polarity protection, anti-surge,suitable for rugged environments



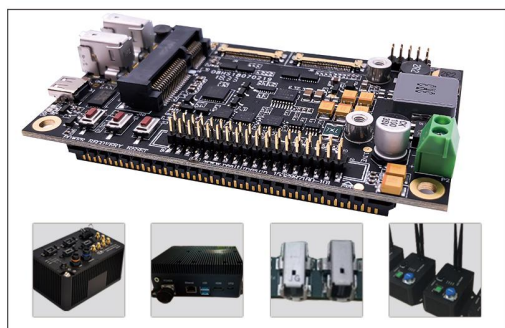
No:3 Provide 3D drawings for easy structural design



No:4 Customized high level IP grade



No:5 OEM & ODM design services



No:6 BSP and excellent technical support

DOWNLOAD LINK: http://www.realtimes.cn/jishuzhichi/_xiazaizhongxin/

文件名	对应设备	版本号
N RTSO系列产品系统烧录说明	TX1/TX2	V1.3
N RTSO-9001 产品手册	TX1/TX2	V1.2.2
N RTSO-9002 产品手册	TX1/TX2	V1.0
N RTSO-9003 产品手册	TX1/TX2	V1.1
N RTSO-9001 BSP驱动包	TX2	R28.2
N RTSO-9002 BSP驱动包	TX2	R28.2

FEATURES SUITABLE FOR FIELD DEPLOYMENT

1. Screening of industrial-grade components, which can be supplied in batches for a long time
2. ROHS certification, 3C certification, CE certification
3. High-grade waterproof and dustproof design
4. Industrial site reliability design: anti-drop USB interface design, high-reliability power supply design, protection circuit design, isolation design
5. Ultra-long MTBF 7 x 24 hours stable operation
6. Provide a complete peripheral package, support access to various video sources, and test tooling to ensure mass production

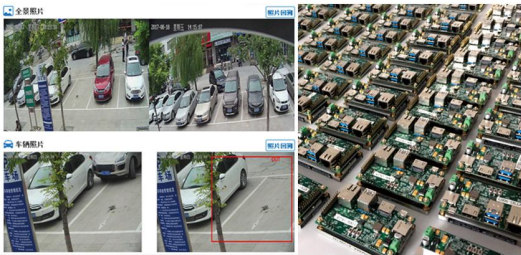
CUSTOMER CASE

Jetson Nano™ solution helps AI fundus image analysis system



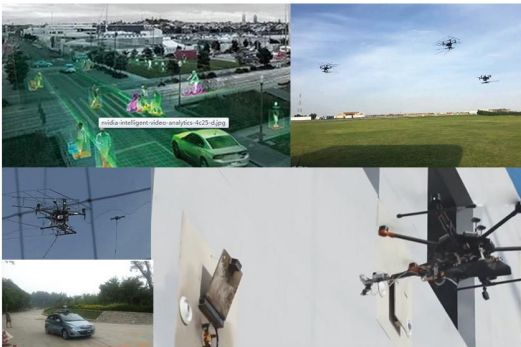
With the multi-interface and expandable multi-function peripherals provided by Ruitai. For medical applications, if data needs to be sent to a remote server, there may also be privacy concerns. The NVIDIA Jetson platform can be said to be a high-performance embedded platform designed to achieve edge-side AI capabilities. Using NVIDIA CUDA to accelerate the computing stack can accelerate the training and development of artificial intelligence applications, and can easily deploy the training results to Jetson platform.

Intelligent parking system based on TX2+ customized carrier board



By using the NVIDIA Jetson TX2 Module to build the world's most advanced full-scene image monitoring device "Smart Eye", it can monitor 7x24 hours a day, and form complete image evidence based on vehicle trajectories, achieving a system accuracy rate of over 99%. Electronic payment realizes the management mode of unmanned toll collection and the parking experience of "inductive payment".

Based on Xavier+RTSO-1001 intelligent control system

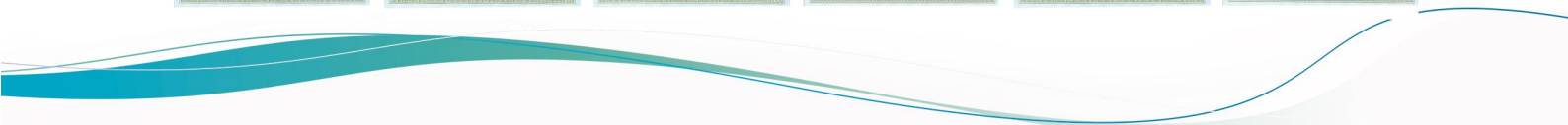


Based on the intelligent control center of NVIDIA Jetson AGX Xavier+RTSO-1001, it effectively solves the huge amount of data imported by many cameras, radars and sensors, and obviously finds the problem of insufficient performance on the original computing platform, helping colleges and universities in the domestic intelligent unmanned driving. Excellent results were obtained in performance competitions such as obstacle detection, safety warning, obstacle bypass and overtaking. The application of the intelligent control center based on AGX Xavier+RTSO-1001 on drones, through multi-sensor precise positioning and rapid target capture, has helped colleges and universities achieve outstanding results in the international drone competition.

Dynamic portrait deployment control retrieval system based on Xavier NX



The dynamic portrait control retrieval system is based on the latest research results in the field of artificial intelligence. It uses a front-end embedded smart camera combined with a central high-performance portrait comparison engine (based on NVIDIA Jetson Xavier NX) to capture pedestrian images in real time and compare them to the control list. Compare and alarm in real time. The system has the characteristics of high accuracy rate, low false alarm rate, small network resource occupation, and strong actual combat. It is widely used in railway stations, bus stations, checkpoints, checkpoints, large-scale events, etc., to carry out control and verification of personnel entering and exiting. Place.





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