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 NVIDIA Ecosystem 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® JetsonTM 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.
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.
**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

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**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

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**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

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 PC
   - Power: +7V — +19V
   - Operating temperature: -40 ~ +85 °C

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 PC
   - Power: +7V — +19V
   - Operating temperature: -40 ~ +85 °C

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 PC
   - Power: +7V — +19V
   - Operating temperature: -40 ~ +85 °C
**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 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, 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, 128G EMMC, 1 Micro SIM, 1 Micro SD
- Power: +5V
- Operating temperature: -40 ~ + 80 °C

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, 128G EMMC(6001E), 1 Micro SIM, 1 Micro SD
- Power: +12V
- Operating temperature: -40 ~ + 80 °C

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 UART, 12xGPIO multiplexing, 4G module (optional), 1 Micro SIM, 1 x 128G EMMC(6002E)
- Power: +12V
- Operating temperature: -40 ~ + 80 °C

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, 1x HDMI, 1xMini 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-6003L Carrier board**

*JETSON NANO B01/Xavier NX/TH2 NX Core module dedicated carrier board*

- **Size:** 150mm × 94mm × 28mm
- **Weight:** 165g
- **I/O:** 5 x GbE, 1x HDMI, 1x Mini HDMI, 1x USB OTG, 1 x USB 3.0, 1 x M.2 KEY M, 1 x M.2 KEY E, 1 x 128GEMMC(6003L), 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-6004 Carrier board**

*JETSON NANO B01/Xavier NX/TH2 NX Core module dedicated carrier board*

- **Size:** 139mm × 101mm × 38mm
- **Weight:** 130.4g
- **I/O:** 2 x GbE, 1x M.2-KEY-B, 1x M.2-KEY-E, 1x HDMI, 1x USB OTG, 4 x USB3.0/USB3.1, 1x Debug UART, 5G module (optional), 1 x Micro SIM, 1 x Micro SD, 2x CAN, 2x RS485, 4x GPIO(3.3V)
- **Power:** +12V
- **Operating temperature:** -40 ~ +80 °C

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**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

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**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
## VIDEO ACCESS PLAN

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

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

**JETSON NANO/XAVIER NX/AGX XAVIER FEIYUN SMART BOX**

<table>
<thead>
<tr>
<th>Model</th>
<th>Z506</th>
<th>Z603</th>
<th>Z603L</th>
<th>Z604</th>
<th>X508</th>
<th>Z508</th>
<th>X509</th>
<th>Z509</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Built-in core processor</strong></td>
<td>Nano</td>
<td>Nano/Xavier</td>
<td>Nano/Xavier</td>
<td>Nano/Xavier</td>
<td>AGX Xavier</td>
<td>AGX Xavier</td>
<td>Xavier NX/</td>
<td>Xavier NX/</td>
</tr>
<tr>
<td><strong>4G/5G support</strong></td>
<td>Yes (optional)</td>
<td>WiFi/5G (optional)</td>
<td>WiFi/5G (optional)</td>
<td>WiFi/5G (optional)</td>
<td>Yes (optional)</td>
<td>Yes (optional)</td>
<td>TX2_NX</td>
<td>TX2_NX</td>
</tr>
<tr>
<td><strong>Video Output</strong></td>
<td>1x Mini HDMI</td>
<td>1x HDMI</td>
<td>1x HDMI</td>
<td>1x HDMI</td>
<td>2x HDMI</td>
<td>2x HDMI</td>
<td>1x Mini HDMI</td>
<td>1x Mini HDMI</td>
</tr>
<tr>
<td><strong>Serial Port</strong></td>
<td>2x 3.3V UART</td>
<td>1x RS485</td>
<td>1x RS485</td>
<td>1x 3.3V UART</td>
<td>2x RS485</td>
<td>3x 3.3V UART</td>
<td>3x 3.3V UART</td>
<td>2x 3.3V UART</td>
</tr>
<tr>
<td><strong>USB</strong></td>
<td>1x USB 2.0 OTG, 1x USB3.0</td>
<td>1x USB 2.0 OTG, 1x USB3.0</td>
<td>1x USB 2.0 OTG, 1x USB3.0</td>
<td>1x USB 2.0 OTG, 1x Micro USB</td>
<td>2x USB3.0, 2x USB 3.1</td>
<td>2x USB3.0, 2x USB 3.1</td>
<td>1x USB 2.0 OTG, 1x USB2.0, 1x USB 3.0</td>
<td>1x USB 2.0 OTG, 1x USB2.0, 1x USB 3.0</td>
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<tr>
<td><strong>Ethernet</strong></td>
<td>1x GbE</td>
<td>1x GbE</td>
<td>5x GbE</td>
<td>2x GbE</td>
<td>2x GbE</td>
<td>2x GbE</td>
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<td>1x GbE</td>
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<tr>
<td><strong>Storage</strong></td>
<td>Micro SD</td>
<td>Micro SD</td>
<td>Micro SD</td>
<td>Micro SD</td>
<td>Micro SD</td>
<td>Micro SD</td>
<td>Micro SD</td>
<td>Micro SD</td>
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<tr>
<td><strong>I2C</strong></td>
<td>1x I2C, 1x SPI</td>
<td>1x I2C, 1x SPI</td>
<td>1x I2C, 1x SPI</td>
<td>1x I2C, 1x SPI</td>
<td>1x I2C, 1x SPI</td>
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<td>1x I2C, 1x SPI</td>
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<td><strong>CAN</strong></td>
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<td>1x CAN</td>
<td>2x CAN</td>
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<tr>
<td><strong>GPIO</strong></td>
<td>Multiplexing with serial port</td>
<td>4x</td>
<td>4x</td>
<td>4x</td>
<td>4x</td>
<td>4x</td>
<td>4x</td>
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<tr>
<td><strong>WiFi</strong></td>
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<td>Yes (optional)</td>
<td>Yes (optional)</td>
<td>Yes (optional)</td>
<td>Yes (optional)</td>
<td>Yes (optional)</td>
<td>Yes (optional)</td>
<td>Yes (optional)</td>
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<tr>
<td><strong>Power input</strong></td>
<td>+12V</td>
<td>+12V</td>
<td>+12V</td>
<td>+12V</td>
<td>+9V/+20V</td>
<td>+9V/+20V</td>
<td>+12V</td>
<td>+12V</td>
</tr>
<tr>
<td><strong>Size(mm)</strong></td>
<td>96 x 92 x 37.87</td>
<td>170 x 94 x 37.5</td>
<td>170 x 94 x 37.5</td>
<td>155 x 100 x 38</td>
<td>150 x 127.8 x 61.85</td>
<td>181 x 121 x 63</td>
<td>115 x 70 x 61</td>
<td>109.1 x 77 x 46</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>≈406g</td>
<td>≈626g</td>
<td>≈626g</td>
<td>≈659.5g</td>
<td>≈1240g</td>
<td>≈1302.9g</td>
<td>≈365g</td>
<td>≈406g</td>
</tr>
<tr>
<td><strong>Temperature (°C)</strong></td>
<td>25°C→65°C</td>
<td>20°C→60°C</td>
<td>20°C→60°C</td>
<td>20°C→60°C</td>
<td>20°C→55°C</td>
<td>20°C→60°C</td>
<td>20°C→65°C</td>
<td>20°C→65°C</td>
</tr>
<tr>
<td><strong>Certification</strong></td>
<td>CCC&amp;CE</td>
<td>CCC&amp;CE</td>
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<td>CCC&amp;CE</td>
</tr>
</tbody>
</table>

* 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

1. Industrial grade components, high reliability design
2. Overvoltage, reverse polarity protection, anti-surge, suitable for rugged environments
3. Provide 3D drawings for easy structural design
4. Customized high level IP grade
5. OEM & ODM design services
6. BSP and excellent technical support

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
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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