## Jetson Nano full system comparison

<table>
<thead>
<tr>
<th>Production Module</th>
<th>Jetson Nano</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product Name</strong></td>
<td>reComputer J1010</td>
</tr>
<tr>
<td><strong>SKU</strong></td>
<td>110061362</td>
</tr>
<tr>
<td><strong>AI Performance</strong></td>
<td>472 GFLOPS</td>
</tr>
<tr>
<td><strong>GPU</strong></td>
<td>NVIDIA Maxwell™ architecture with 128 NVIDIA CUDA® cores</td>
</tr>
<tr>
<td><strong>CPU</strong></td>
<td>Quad-core Arm® Cortex®-A57 MPCore processor</td>
</tr>
<tr>
<td><strong>Memory</strong></td>
<td>4 GB 64-bit LPDDR4, 1600MHz 25.6 GB/s</td>
</tr>
<tr>
<td><strong>Storage</strong></td>
<td>16 GB eMMC 5.1</td>
</tr>
<tr>
<td><strong>Video Decode</strong></td>
<td>1*4K60</td>
</tr>
<tr>
<td><strong>Networking</strong></td>
<td>1*RJ45 Gigabit Ethernet Connector (10/100/1000)</td>
</tr>
<tr>
<td><strong>USB</strong></td>
<td>1*USB 3.0 Type A</td>
</tr>
<tr>
<td><strong>CSI Camera</strong></td>
<td>2*CSI camera connectors (15 pos, 1mm pitch, MIPI CSI-2)</td>
</tr>
<tr>
<td><strong>Display</strong></td>
<td>1*HDMI 2.0 Type A</td>
</tr>
<tr>
<td><strong>Fan</strong></td>
<td>1*Fan Connector (5V PWM)</td>
</tr>
<tr>
<td><strong>M.2 Key E</strong></td>
<td>1*M.2 Key E connector to support WiFi/BT</td>
</tr>
<tr>
<td><strong>Multifunctional header</strong></td>
<td>1*40-Pin header (GPIO, I2C, I2S, SPI, UART)</td>
</tr>
<tr>
<td><strong>Power Adapter</strong></td>
<td>USB Type-C 5V/3A</td>
</tr>
<tr>
<td><strong>Power</strong></td>
<td>5W</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>130mmx120mmx50mm (with case)</td>
</tr>
</tbody>
</table>
# Jetson Xavier NX full system comparison

<table>
<thead>
<tr>
<th>Production Module</th>
<th>Jetson Xavier NX</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product Name</strong></td>
<td>reComputer J2021</td>
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<tr>
<td><strong>SKU</strong></td>
<td>110061381</td>
</tr>
<tr>
<td><strong>Built-in carrier board</strong></td>
<td>3202</td>
</tr>
<tr>
<td><strong>AI Performance</strong></td>
<td>21 TOPS</td>
</tr>
<tr>
<td><strong>GPU</strong></td>
<td>6-core NVIDIA Carmel ARMv8.2 64-bit CPU, 6MB L2 + 4MB L3</td>
</tr>
<tr>
<td><strong>Memory</strong></td>
<td>8 GB 128-bit LPDDR4x 59.7GB/s</td>
</tr>
<tr>
<td><strong>Storage</strong></td>
<td>16 GB eMMC 5.1</td>
</tr>
<tr>
<td><strong>Video Encode</strong></td>
<td>2*4K60</td>
</tr>
<tr>
<td><strong>Video Decode</strong></td>
<td>2*8K30</td>
</tr>
<tr>
<td><strong>Networking</strong></td>
<td>1*RJ45 Gigabit Ethernet Connector (10/100/1000)</td>
</tr>
<tr>
<td><strong>USB</strong></td>
<td>4*USB 3.1 Type A Connector</td>
</tr>
<tr>
<td><strong>CSI Camera</strong></td>
<td>2*CSI camera connectors (15 pos, 1mm pitch, MIPI CSI-2)</td>
</tr>
<tr>
<td><strong>Display</strong></td>
<td>1*HDMI 2.0 Type A</td>
</tr>
<tr>
<td><strong>Fan</strong></td>
<td>1* Fan (5V PWM)</td>
</tr>
<tr>
<td><strong>M.2 Key E</strong></td>
<td>1*M.2 Key E connector to support WiFi/Bluetooth</td>
</tr>
<tr>
<td><strong>Multifunctional header</strong></td>
<td>1*40-Pin header (GPIO, I2C, I2S, SPI, UART)</td>
</tr>
<tr>
<td><strong>Power Adapter</strong></td>
<td>DC Barrel Jack 12V/5A (5.5/2.1mm)</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>130mmx120mmx50mm (with case)</td>
</tr>
</tbody>
</table>
# Jetson Xavier NX full system comparison

<table>
<thead>
<tr>
<th>Production Module</th>
<th>Jetson Xavier NX</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product Name</strong></td>
<td>A203 A205 E T506S Jetson Sub Black</td>
</tr>
<tr>
<td><strong>SKU</strong></td>
<td>114110147 114110148 114110167 102110641</td>
</tr>
<tr>
<td><strong>AI Performance</strong></td>
<td>21 TOPS</td>
</tr>
<tr>
<td><strong>GPU</strong></td>
<td>384-core NVIDIA Volta™ GPU with 48 Tensor Cores</td>
</tr>
<tr>
<td><strong>CPU</strong></td>
<td>6-core NVIDIA Carmel ARM®v8.2 64-bit CPU, 6MB L2 + 4MB L3</td>
</tr>
<tr>
<td><strong>Networking</strong></td>
<td>1<em>RJ45 GbE (10/100/1000) 1</em>Sim card slot 1<em>WiFi/ BLE module 4</em>PoE(PSE) GbE Ports 1<em>PoE(PD) GbE Port 2</em>RJ45 GbE (10/100/1000) 1*WiFi module</td>
</tr>
<tr>
<td><strong>Memory</strong></td>
<td>8 GB 128-bit LPDDR4x 59.7GB/s</td>
</tr>
<tr>
<td><strong>USB</strong></td>
<td>2<em>USB3.0 Type A 1</em>USB 2.0 Type A for device mode 4<em>USB 3.0 Type A 1</em>USB 2.0 Type C for device mode 4<em>USB 3.0 Type A 1</em>USB 2.0 Micro-B (OTG) for device mode 4<em>USB 3.0 Type-A (Integrated USB 2.0) 1</em>USB 2.0 Micro-B (OTG) for device mode</td>
</tr>
<tr>
<td><strong>Camera</strong></td>
<td>1<em>CSI camera connector (15 pos, 1mm pitch, MIPI CSI-2) MIPI connector compatible with MIPI CSI and GMSL 1</em>6-camera connectors (15 pos, 1mm pitch, MIPI CSI-2)</td>
</tr>
<tr>
<td><strong>Display</strong></td>
<td>1<em>HDMI 2.0 Type A 1</em>M.2 Key E connector to support WiFi/BT (module included) 1<em>M.2 Key E connector to support 5G 1</em>M.2 Key E connector</td>
</tr>
<tr>
<td><strong>M.2 Key E</strong></td>
<td>1*M.2 Key E connector to support WiFi/BT (module included)</td>
</tr>
<tr>
<td><strong>mini PCIe</strong></td>
<td>/</td>
</tr>
<tr>
<td><strong>IO</strong></td>
<td>1<em>RJ45 GbE 1</em>CAN, 2<em>SPI, 2</em>I2C Link(+3.3V I/O), 5<em>GPIO, 1</em>25(3.3V Level) 1<em>RJ45 GbE, 1</em>CAN, 1<em>SPI Bus(+3.3V I/O), 2</em>I2C Link(+3.3V I/O), 1<em>GPIO 1</em>RJ45 GbE, 1<em>CAN, 1</em>SPI Bus(+3.3V Level), 2<em>I2C Link(+3.3V I/O), 1</em>GPIO 1<em>UART, 1</em>CAN, 2<em>SPI Bus(+3.3V Level), 2</em>I2C Link(+3.3V I/O), 2*GPIO</td>
</tr>
<tr>
<td><strong>Multifunctional header</strong></td>
<td>1*40-Pin header (GPIO, I2C, I2S, SPI, UART)</td>
</tr>
<tr>
<td><strong>FAN</strong></td>
<td>1* Fan (5V PWM) Fanless, passive heatsink Fanless, passive heatsink Fanless, passive heatsink</td>
</tr>
<tr>
<td><strong>Power Input</strong></td>
<td>9V - 19V DC 9V - 36V DC 12-36V DC 13-20V DC</td>
</tr>
<tr>
<td><strong>Power Adapter</strong></td>
<td>DC 19V 4.74A (MAX 90W) DC Jack 19V 4.74A (MAX 90W) DC Jack 19V 3.42A DC Jack 19V 4.74A (MAX 90W)</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>100mm x 50mm x 59mm (with case) 209mm x 130mm x 66 mm (with case) 155mm × 165mm × 52.5mm (with case) 205mm x 130mm x 65mm (with case)</td>
</tr>
<tr>
<td><strong>Operating temperature</strong></td>
<td>-20°C ~ 80°C, 0.2~0.3m/s air flow -20°C ~ 65°C, 0.2 ~ 0.3m/s air flow -20°C ~ 65°C -25°C ~ +80°C</td>
</tr>
<tr>
<td><strong>Operating System</strong></td>
<td>Pre-installed JetPack 5.0.2 Pre-installed JetPack 5.0.2 Pre-installed JetPack 4.6 Pre-installed JetPack 4.6</td>
</tr>
</tbody>
</table>
### Product Name
- Jetson AGX Xavier H01 Kit
- NVIDIA® Jetson AGX Xavier Dev Kit

### SKU
- 110991666
- 102110417

### AI Performance
- 32 TOPS

### GPU
- NVIDIA Volta™ architecture with 512 NVIDIA® CUDA® cores and 64 Tensor cores

### CPU
- 8-core NVIDIA Carmel Arm®v8.2 64-bit CPU 8MB L2 + 4MB L3

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

### Storage
- 32 GB eMMC 5.1; microSD card slot; 1*M.2 Key M connector
- 32 GB eMMC 5.1; microSD card slot; eSATA port; 1*M.2 Key M connector

### Video Encode
- 4*4K60 | 8*4K30 | 16*1080p60 | 32*1080p30 (H.265)
- 30*1080p30 (H.264)

### Video Decode
- 2*4K60 | 6*4K60 | 12*4K30 | 26*1080p60 | 52*1080p30 (H.265)
- 30*1080p30 (H.264)

### Networking
- 1*RJ45 Gigabit Ethernet Connector (10/100/1000)

### USB
- 2*USB 3.0 Type-A; 1*USB 2.0 Type-C for device mode
- 1*USB 3.1 Type-A; 1*USB Type-C for device mode/debug; 1*USB Type-C; 1*USB 2.0 Micro-B for debug

### Camera
- Camera connector (Compatible with MIPI CSI and GMSL)

### Display
- 1 x HDMI 2.0 Type A

### Fan
- 1*12V Fan

### M.2 Key E
- 1*M.2 Key E connector

### PCIe
- PCIe X16 (x8 PCIe Gen4/x8 SLVS-EC)

### Multifunctional header
- 1*40-Pin header

### Power Adapter
- DC Jack 19V 4.74A (MAX 90W)

### Power
- 10W | 15W | 30W

### Dimensions
- 130mmx105mmx77mm (with case)
- 105mmx105mmx65mm
## Jetson Orin full system comparison

<table>
<thead>
<tr>
<th>Production Module</th>
<th>Jetson Orin Nano</th>
<th>Jetson Orin NX</th>
<th>Jetson AGX Orin</th>
<th>Jetson AGX Orin</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product Name</strong></td>
<td>reComputer J3010</td>
<td>reComputer J3011</td>
<td>reComputer J4011</td>
<td>reComputer J4012</td>
</tr>
<tr>
<td><strong>SKU</strong></td>
<td>110110147</td>
<td>110110144</td>
<td>110110145</td>
<td>t410116b</td>
</tr>
<tr>
<td><strong>Module</strong></td>
<td>Jetson Orin Nano 4GB</td>
<td>Jetson Orin Nano 8GB</td>
<td>Jetson Orin NX 8GB</td>
<td>Jetson Orin NX 16GB</td>
</tr>
<tr>
<td><strong>AI Performance</strong></td>
<td>20 TOPS</td>
<td>40 TOPS</td>
<td>70 TOPS</td>
<td>100 TOPS</td>
</tr>
<tr>
<td><strong>CPU</strong></td>
<td>Si2-core NVIDIA Ampere architecture GPU with 16 Tensor Cores</td>
<td>1024-core NVIDIA Ampere architecture GPU with 32 Tensor Cores</td>
<td>NVIDIA Ampere architecture with 1024 NVIDIA® CUDA® cores and 32 tensor cores</td>
<td>NVIDIA Ampere architecture with 2048 NVIDIA® CUDA® cores and 64 Tensor Cores</td>
</tr>
<tr>
<td><strong>GPU</strong></td>
<td>6-core Arm® Cortex®-A78AE v8.2 64-bit CPU 51MB L2 + 4MB L3; 8-core Arm® Cortex®-A78AE v8.2 64-bit CPU 15MB L2 + 4MB L3</td>
<td>8-core Arm® Cortex®-A78AE v8.2 64-bit CPU 2MB L2 + 4MB L3</td>
<td>8-core Arm® Cortex®-A78AE v8.2 64-bit CPU 2MB L2 + 4MB L3</td>
<td>12-core Arm® Cortex®-A78AE v8.2 64-bit CPU 3MB L2 + 6MB L3</td>
</tr>
<tr>
<td><strong>Memory</strong></td>
<td>4GB 64-bit LPDDR5 3x GB/5</td>
<td>8GB 128-bit LPDDR5 68 GB/5</td>
<td>8GB 128-bit LPDDR5 102.4 GB/5</td>
<td>16GB 128-bit LPDDR5 102.4 GB/5</td>
</tr>
<tr>
<td><strong>Storage</strong></td>
<td>Supports external NVMe</td>
<td>1*M.2 Key M (128GB NVMe SSD included)</td>
<td>64GB eMMC 5.1</td>
<td>64GB eMMC 5.1; microSD card slot</td>
</tr>
<tr>
<td><strong>Video Encode</strong></td>
<td>1080p30 supported by 1-2 CPU cores</td>
<td>7*4K60</td>
<td>3*4K30</td>
<td>6*1080p60</td>
</tr>
<tr>
<td><strong>Video Decode</strong></td>
<td>1x 4K60</td>
<td>2x 4K30</td>
<td>5x 1080p60</td>
<td>1x 1080p30 (H.265)</td>
</tr>
<tr>
<td><strong>Networking</strong></td>
<td>1*RM45 Gigabit Ethernet Connector (10/100/1000)</td>
<td>1*RJ45 GbE (10/100/1000)</td>
<td>1*RJ45 10GbE</td>
<td>1*RJ45 10GbE</td>
</tr>
<tr>
<td><strong>USB</strong></td>
<td>4*USB 3.2 Type-A</td>
<td>1*USB Type C for device mode</td>
<td>1*USB 3.2 Type-A</td>
<td>1*USB 3.2 Type C</td>
</tr>
<tr>
<td><strong>Camera</strong></td>
<td>2*CSI Cameras (15 pos, 1mm pitch, MIPI CSI-2)</td>
<td>2*CSI Cameras (15 pos, 1mm pitch, MIPI CSI-2)</td>
<td>GMSL 2 camera connector (compatible with GMSL)</td>
<td>Camera Connector (2x60, 0.5mm pitch)</td>
</tr>
<tr>
<td><strong>Display</strong></td>
<td>1*HDMI</td>
<td>1*HDMI</td>
<td>1*HDMI 2.0 Type-A</td>
<td>1*DP 1.4a</td>
</tr>
<tr>
<td><strong>Fan</strong></td>
<td>1*Fan(SV PWM) (Fan included)</td>
<td>1*Fan(SV PWM) (Fan included)</td>
<td>2*Fan(SV PWM)</td>
<td>1*Fan(SV PWM) (Fan included)</td>
</tr>
<tr>
<td><strong>M.2 Key E</strong></td>
<td>1*M.2 Key E</td>
<td>1*M.2 Key E</td>
<td>1*M.2 Key E</td>
<td>1*M.2 Key E (WiFi/BT included)</td>
</tr>
<tr>
<td><strong>Mini PCIe</strong></td>
<td>/</td>
<td>/</td>
<td>/</td>
<td>/</td>
</tr>
<tr>
<td><strong>Multifunctional header / IO</strong></td>
<td>1*40-Pin header</td>
<td>1*40-Pin header</td>
<td>3*CAN (with CAN chip)</td>
<td>1*40-Pin header</td>
</tr>
<tr>
<td><strong>Power</strong></td>
<td>SW - 10W</td>
<td>7W - 15W</td>
<td>10W - 20W</td>
<td>10W - 25W</td>
</tr>
<tr>
<td><strong>Power Adapter</strong></td>
<td>DC Jack 12V SA</td>
<td>DC Jack 19V 4.74A (MAX 90W)</td>
<td>DC Jack 19V 4.74A</td>
<td>DC Jack 24V</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>130mmx120mmx50mm (with case)</td>
<td>196.7mmx196mmx44mm</td>
<td>132mmx124mmx233mm</td>
<td></td>
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</table>
## NVIDIA® Jetson Module Compatible Carrier Boards Comparison

<table>
<thead>
<tr>
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<th></th>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>PCB Size/Overall Size</td>
<td>100mm*80mm</td>
<td>100mm*80mm</td>
<td>100mm*80mm</td>
<td>100mm*80mm</td>
<td>89mm*52mm</td>
<td>170mm*100mm</td>
<td>115mm*105mm</td>
</tr>
<tr>
<td>Display</td>
<td>1*HDMI</td>
<td>1<em>HDMI+1</em>DP</td>
<td>1*DP</td>
<td>1<em>HDMI+1</em>DP</td>
<td>1*HDMI</td>
<td>2*HDMI</td>
<td>2*HDMI 2.0 (TYPE A)</td>
</tr>
<tr>
<td>CSI Camera</td>
<td>2*CSI</td>
<td>2*CSI</td>
<td>2*CSI</td>
<td>2*CSI</td>
<td>1*CSI</td>
<td>6*CSI</td>
<td>1*CSI</td>
</tr>
<tr>
<td>Networking</td>
<td>1*Gigabit Ethernet (10/100/1000M)</td>
<td>1*M.2 Key E (WiFi) (module not included)</td>
<td>1*Gigabit Ethernet (10/100/1000M)</td>
<td>1*M.2 Key E (WiFi) (module not included)</td>
<td>1*Gigabit Ethernet (10/100/1000M)</td>
<td>1*M.2 Key E (WiFi) (module not included)</td>
<td>2*Gigabit Ethernet Connector (10/100/1000)</td>
</tr>
<tr>
<td>USB</td>
<td>1*USB 3.0 Type-A</td>
<td>4*USB 3.1 Type-A (Integrated USB 2.0)</td>
<td>4*USB 3.2 Type-A (Integrated USB 2.0)</td>
<td>4*USB 3.0 Type-A (Integrated USB 2.0)</td>
<td>4*USB 3.0 Type-A (Integrated USB 2.0)</td>
<td>1*USB 0.5mm pitch 20pin ZIF</td>
<td>1* USB 2.0 ZIF 20-pin 0.5mm pitch</td>
</tr>
<tr>
<td>Storage Expansion</td>
<td>1*TF_Card (CLK Frequency 48Mhz)</td>
<td>1*M.2 Key M</td>
<td>1*M.2 Key M</td>
<td>1*M.2 Key M</td>
<td>1*M.2 Key M</td>
<td>1*TF_Card</td>
<td>5<em>SATA 1</em>TF_Card</td>
</tr>
<tr>
<td>Audio</td>
<td>/</td>
<td>/</td>
<td>/</td>
<td>/</td>
<td>/</td>
<td>/</td>
<td>1<em>Audio Jack, 2</em>Speaker</td>
</tr>
<tr>
<td>SPI Bus</td>
<td>2*SPI Bus(+3.3V Level)</td>
<td>2*SPI Bus(+3.3V Level)</td>
<td>2*SPI Bus(+3.3V Level)</td>
<td>2*SPI Bus(+3.3V Level)</td>
<td>2*SPI Bus(+3.3V Level)</td>
<td>2*SPI Bus(+3.3V Level)</td>
<td>1*SPI Bus(+3.3V Level)</td>
</tr>
<tr>
<td>CAN</td>
<td>1* CAN</td>
<td>1* CAN</td>
<td>1* CAN</td>
<td>1* CAN</td>
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<td>1* CAN</td>
<td>1* CAN</td>
</tr>
<tr>
<td>Multifunctional port</td>
<td>1*40-Pin</td>
<td>1*40-Pin</td>
<td>1*40-Pin</td>
<td>1*40-Pin</td>
<td>1*40-Pin</td>
<td>1*40-Pin</td>
<td>1*40-Pin</td>
</tr>
<tr>
<td>RTC</td>
<td>Battery not included</td>
<td>Battery not included</td>
<td>Battery not included</td>
<td>Battery not included</td>
<td>Battery not included</td>
<td>Battery not included</td>
<td>Battery not included</td>
</tr>
<tr>
<td>Power supply</td>
<td>USB Type C 5V/3A (not include a power cord)</td>
<td>12V/5A power cord only</td>
<td>19V/4.74A power cord only</td>
<td>19V/4.74A power cord only</td>
<td>19V/4.74A power cord only</td>
<td>19V/4.74A power cord only</td>
<td>9V-36V DC</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0°C~60°C</td>
<td>0°C~60°C</td>
<td>-10°C~70°C</td>
<td>-25°C~80°C</td>
<td>-25°C~65°C</td>
<td>-25°C~80°C</td>
<td>-25°C~80°C</td>
</tr>
</tbody>
</table>