Boundary Devices introduces the Nitrogen6X-SOM, a low cost, highly integrated System-on-Module based on the Freescale i.MX6 Single/Dual/Quad-Core CPU. The SOM is ideal for customers looking for rapid product development while maintaining the flexibility of a custom design. The Nitrogen6X-SOM has a wide variety of peripheral options including Gigabit Ethernet, multiple display channels, and PCIe. Design your own carrier board or contact us for a custom carrier board quote.

**Main Features**
- Single/Dual/Quad-Core ARM® Cortex A9 processor at 1GHz
- 1GByte of 64-bit wide DDR3 @ 532MHz—Expandable up to 2GB
- Three display ports (PRGB,LVDS,HDMI)
- Parallel Camera Port
- MIPI Interface
- Multi-stream-capable HD video engine delivering 1080p60 decode, 1080p30 encode and 3-D video playback in HD
- Serial ATA (SATA)
- PCI express
- Compact size (2.25 x 2.5"
- 10/100/1G Ethernet
- JTAG Interface
- 2 High speed USB ports (1xHost, 1xOTG)
- CAN port
- I2C/SPI
- GPIO
- 2 UART
- Android 4.4.3, CE7, Ubuntu and Yocto Linux
- I2S for Audio Codec
- 2MB Serial Flash on-board for Uboot

**OS Support**
- Android
- Windows
- Linux

Available in Quad Core, Dual Core, Single Core, and Industrial Temp Versions
Compatible with Nitrogen6X_Carrier

MAIN FEATURES

- 10/100/1G Ethernet
- SATA
- 2 microSD slots
- TiWi 802.11 b/g/n + Bluetooth module from
- RGB/HDMI/LVDS Display Interfaces
- PCIe Interface with mini_PCIE connector
- Headphone + Speaker Out
  HDMI + RGB + LVDS
- MIC In
- 3 USB Hosts + 1 USB OTG
- JTAG
- 3 UARTS
- I2C/GPIO
- CAN Bus
- Camera CSI interface
  MIPI Interface

CARRIER BOARD

<table>
<thead>
<tr>
<th>MODEL</th>
<th>CPU</th>
<th>MEMORY</th>
<th>OPERATING TEMPERATURE RATING</th>
</tr>
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<tbody>
<tr>
<td>NIT6Q_SOM</td>
<td>Freescale SOC i.MX6 Quad Arm Cortex-A9 (MCIMX6Q6AVT10AC)</td>
<td>Hynix 1GB DDR3</td>
<td>0° to + 70°C</td>
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<td>NIT6D_SOM</td>
<td>Freescale SOC i.MX6 Dual Arm Cortex-A9 (MCIMX6D5EYM10AC)</td>
<td>Hynix 1GB DDR3</td>
<td>0° to + 70°C</td>
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<td>Hynix 1GB DDR3</td>
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<td>NIT6Q_SOM_2GB</td>
<td>Freescale SOC i.MX6 Quad Arm Cortex-A9 (MCIMX6Q6AVT10AC)</td>
<td>Micron 2GB DDR3</td>
<td>0° to + 70°C</td>
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<tr>
<td>NIT6Q_SOM_I</td>
<td>Freescale SOC i.MX6 Quad Arm Cortex-A9 (MCIMX6Q6AVT10AC)</td>
<td>Micron 1GB DDR3</td>
<td>-40° to +85°C</td>
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Qty 1000 Price

- NIT6Q_SOM: $98
- NIT6D_SOM: $86
- NIT6S_SOM: $74
- NIT6Q_SOM_2GB: $118
- NIT6Q_SOM_I: $118

BULK DISCOUNT PRICING IS AVAILABLE. CONTACT US FOR MORE INFORMATION