

0.00 EUR  
incl. 19% VAT, plus [shipping](#)

- NVidia Jetson Orin NX !
- 16GB RAM !
- 4 x GMSL-2 / Model M12 !



- NVIDIA® Jetson Orin™ NX SoM with 1024 CUDA Cores
- 4 x GMSL Cameras Support
- 2 x Ethernet with M12 Connectors
- 1 x CAN FD for Vehicle Connection
- 9-60VDC Input with Built-in Smart Power Management
- -25°C ~ 70°C Operating with Fanless Design
- Watchdog for System Monitoring

**System**

**IBOX-601-G2-01-ONX16**

**NVIDIA® Jetson Orin™ NX 16GB / VDB-101 / 4 x GMSL-2 / Model M12**

**Module**

**NVIDIA® Jetson Orin™ NX 16GB**

**(1024 CUDA cores + 8-core ARM Cortex-A78AE CPU + 16 GB LPDDR5)**

**Security**

**Platform Security Controller (PSC), Security Engine (SE)**

	<ul style="list-style-type: none"> <li>- 2 x M12 X-coded for 1 x 2.5GbE &amp; 1 x GbE ( Intel® 2.5GbE, SoM Built-in GbE)</li> </ul>
	<ul style="list-style-type: none"> <li>- 2 x USB 3.2 Type-A</li> <li>* Two ports share 10Gbps bandwidth</li> </ul>
	<ul style="list-style-type: none"> <li>- 1 x HDMI Type-A output supports 4K resolution</li> </ul>
	<ul style="list-style-type: none"> <li>- 1 x HD Audio from the HDMI</li> </ul>
<b>Interface</b>	<ul style="list-style-type: none"> <li>- 1 x DB-9 for RS-232/422/485</li> <li>- 4 x FAKRA for GMSL-2 cameras</li> <li>- 1 x DB-9 for CAN FD</li> <li>- 1 x USB Type-C for system recovery (Device only)</li> <li>- 1 x Nano SIM card slot</li> <li>- 5 x Pre-cut holes for external SMA antenna</li> </ul>
<b>INTERNAL EXPANSION</b>	<ul style="list-style-type: none"> <li>• 1 x M.2 2230 Key E slot</li> <li>• 1 x M.2 3042/52 Key B slot (USB3.0) with nano SIM card slot</li> <li>• 1 x mPCIe full-size slot (USB.2.0 supported)</li> </ul>
<b>STORAGE (Internal)</b>	<ul style="list-style-type: none"> <li>• 1 x M.2 2280 Key M slot supports NVMe SSD (Pre-installed system BSP)</li> </ul>
<b>Operating System / SDK</b>	<p>NVIDIA® JetPack including Jetson Linux, NVIDIA® development tools  -25°C ~ 70°C (-13°F ~ 158°F), ambient w/ 0.6m/s airflow  *Operating temp. varies by accessories installed.</p>
<b>Operating Temp.</b>	
<b>Storage Temp.</b>	-40°C ~ 80°C (-40°F ~ 176°F)
<b>Relative Humidity</b>	10% RH – 90% RH (non-condensing)
<b>Certification / Standard</b>	CE, FCC Part-15 Class A, E-mark, EN50155, EN45545-2 (R25)
<b>Vibration</b>	<ul style="list-style-type: none"> <li>• Random – IEC60068-2-64, random, 2.5G@5~500Hz, 1hr/axis</li> <li>• MIL-STD-810G – Method 514.6, Procedure I, Category 4</li> </ul>
<b>Shock</b>	MIL-STD-810G, Method 516.6, Procedure I, Trucks and semi-trailers=15G (11ms) with SSD
<b>Power Input</b>	<ul style="list-style-type: none"> <li>• 1 x M12 K-coded for DC-IN 9 ~ 60V</li> <li>• Supports Smart Power Management, OCP and OVP</li> </ul>
<b>Mechanical</b>	<p>Aluminum Alloy  Fanless Passive Cooling Design  DIN-Rail, Wall Mount  1770 g  150 mm (L) x 135 mm (W) x 77 mm (H)</p>

**WI-FI: M.2 2230 Wi-Fi Module**

**WWAN Modem: M.2 3042/52 WWAN Modem**

**GPS: mPCIe GPS Module**

**UPS: BAT-2300v2**

**Optional Accessories**

**GMSL Camera:**

**2MP 63.9° - Sony IMX390 2MP, 63.9°, GMSL-2**

**2MP 120.6° - Sony IMX390 2MP, 120.6°, GMSL-2**

**2MP 186.0° - Sony IMX390 2MP, 186.0°, GMSL-2**