

0.00 EUR

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

- NVidia Jetson Orin NX !
- 8GB 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-G2-00-ONX8**

**NVIDIA® Jetson Orin™ NX 8GB / VDB-100 / 4 x GMSL-2 / Model M12**

**Module**

**NVIDIA® Jetson Orin™ NX 8GB**

**(1024 CUDA cores + 6-core ARM Cortex-A78AE CPU + 8 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<br/>( 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>                                                                                                                                                                                                                             |
| Interface                |  | <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> |
|                          |  | <ul style="list-style-type: none"> <li>• 1 x M.2 2230 Key E slot</li> </ul>                                                                                                                                                                                                                                |
| INTERNAL EXPANSION       |  | <ul style="list-style-type: none"> <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>                                                                                                                                    |
|                          |  | <ul style="list-style-type: none"> <li>• 1 x M.2 2280 Key M slot supports NVMe SSD (Pre-installed system BSP)</li> </ul>                                                                                                                                                                                   |
| STORAGE (Internal)       |  |                                                                                                                                                                                                                                                                                                            |
| Operating System / SDK   |  | <p>NVIDIA® JetPack including Jetson Linux, NVIDIA® development tools</p> <p>-25°C ~ 70°C (-13°F ~ 158°F), ambient w/ 0.6m/s airflow</p> <p>*Operating temp. varies by accessories installed.</p>                                                                                                           |
| Operating Temp.          |  |                                                                                                                                                                                                                                                                                                            |
|                          |  | -40°C ~ 80°C (-40°F ~ 176°F)                                                                                                                                                                                                                                                                               |
| Storage Temp.            |  |                                                                                                                                                                                                                                                                                                            |
| Relative Humidity        |  | 10% RH – 90% RH (non-condensing)                                                                                                                                                                                                                                                                           |
| Certification / Standard |  | CE, FCC Part-15 Class A, E-mark, EN50155, EN45545-2 (R25)                                                                                                                                                                                                                                                  |
|                          |  | Random – IEC60068-2-64, random, 2.5G@5~500Hz, 1hr/axis                                                                                                                                                                                                                                                     |
| Vibration                |  | <ul style="list-style-type: none"> <li>• MIL-STD-810G – Method 514.6, Procedure I, Category 4</li> </ul>                                                                                                                                                                                                   |
| Shock                    |  | MIL-STD-810G, Method 516.6, Procedure I, Trucks and semi-trailers=15G (11ms) with SSD                                                                                                                                                                                                                      |
| Power Input              |  | <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>                                                                                                                                                              |
|                          |  | Aluminum Alloy                                                                                                                                                                                                                                                                                             |
|                          |  | Fanless Passive Cooling Design                                                                                                                                                                                                                                                                             |
| Mechanical               |  | DIN-Rail, Wall Mount                                                                                                                                                                                                                                                                                       |
|                          |  | 1770 g                                                                                                                                                                                                                                                                                                     |
|                          |  | 150 mm (L) x 135 mm (W) x 77 mm (H)                                                                                                                                                                                                                                                                        |

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**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**