

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)**

|                          |                                                                                       |                                                                                                                  |
|--------------------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Interface                | - 2 x M12 X-coded for 1 x 2.5GbE & 1 x GbE<br>( Intel® 2.5GbE, SoM Built-in GbE)      |                                                                                                                  |
|                          | - 2 x USB 3.2 Type-A                                                                  |                                                                                                                  |
|                          | * Two ports share 10Gbps bandwidth                                                    |                                                                                                                  |
|                          | - 1 x HDMI Type-A output supports 4K resolution                                       |                                                                                                                  |
|                          | - 1 x HD Audio from the HDMI                                                          |                                                                                                                  |
|                          | - 1 x DB-9 for RS-232/422/485                                                         |                                                                                                                  |
|                          | - 4 x FAKRA for GMSL-2 cameras                                                        |                                                                                                                  |
|                          | - 1 x DB-9 for CAN FD                                                                 |                                                                                                                  |
|                          | - 1 x USB Type-C for system recovery (Device only)                                    |                                                                                                                  |
|                          | - 1 x Nano SIM card slot                                                              |                                                                                                                  |
| INTERNAL EXPANSION       | - 5 x Pre-cut holes for external SMA antenna                                          |                                                                                                                  |
|                          | •                                                                                     | 1 x M.2 2230 Key E slot                                                                                          |
|                          | •                                                                                     | • 1 x M.2 3042/52 Key B slot (USB3.0) with nano SIM card slot<br>1 x mPCIe full-size slot (USB.2.0 supported)    |
| STORAGE (Internal)       | •                                                                                     | 1 x M.2 2280 Key M slot supports NVMe SSD (Pre-installed system BSP)                                             |
| Operating System / SDK   | NVIDIA® JetPack including Jetson Linux, NVIDIA® development tools                     |                                                                                                                  |
| Operating Temp.          | -25°C ~ 70°C (-13°F ~ 158°F), ambient w/ 0.6m/s airflow                               |                                                                                                                  |
|                          | *Operating temp. varies by accessories installed.                                     |                                                                                                                  |
|                          |                                                                                       |                                                                                                                  |
| Storage Temp.            | -40°C ~ 80°C (-40°F ~ 176°F)                                                          |                                                                                                                  |
| Relative Humidity        | 10% RH – 90% RH (non-condensing)                                                      |                                                                                                                  |
| Certification / Standard | CE, FCC Part-15 Class A, E-mark, EN50155, EN45545-2 (R25)                             |                                                                                                                  |
| Vibration                | •                                                                                     | Random – IEC60068-2-64, random, 2.5G@5~500Hz, 1hr/axis<br>• MIL-STD-810G – Method 514.6, Procedure I, Category 4 |
| Shock                    | MIL-STD-810G, Method 516.6, Procedure I, Trucks and semi-trailers=15G (11ms) with SSD |                                                                                                                  |
| Power Input              | • 1 x M12 K-coded for DC-IN 9 ~ 60V                                                   |                                                                                                                  |
|                          | • Supports Smart Power Management, OCP and OVP                                        |                                                                                                                  |
| Mechanical               | Aluminum Alloy                                                                        |                                                                                                                  |
|                          | Fanless Passive Cooling Design                                                        |                                                                                                                  |
|                          | DIN-Rail, Wall Mount                                                                  |                                                                                                                  |
|                          | 1770 g                                                                                |                                                                                                                  |
|                          | 150 mm (L) x 135 mm (W) x 77 mm (H)                                                   |                                                                                                                  |

**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**