

0.00 EUR

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

- NVidia Jetson Orin NX !
- 16GB RAM !
- 480GB SSD !
- 4x FAKRA / 4-CH GMSL x1 !



- 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
- Optional Backup Battery for Emergency

#### IBOX-601-M12X-00-ONX16-S05

##### System

NVIDIA® Jetson™ Orin NX 16GB / 480GB SSD / Model M12/ 4x FAKRA / 4-CH GMSL x1

##### Module

NVIDIA® Jetson Orin™ NX 16GB – 100 TOPS  
(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 2.1 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 DB-9 for 4 x DI / 4 x DO                                                                                                                                                    |                                                                      |
|                          | - 1 x USB Type-C for system recovery (Device only)                                                                                                                                |                                                                      |
| INTERNAL EXPANSION       | - 1 x Nano SIM card slot                                                                                                                                                          |                                                                      |
|                          | - 5 x Pre-cut holes for external SMA antenna                                                                                                                                      |                                                                      |
|                          | •                                                                                                                                                                                 | 1 x M.2 2230 Key E slot                                              |
| STORAGE (Internal)       | •                                                                                                                                                                                 | 1 x M.2 3042/52 Key B slot with nano SIM card slot                   |
|                          | •                                                                                                                                                                                 | 1 x mPCIe full-size slot (USB.2.0 supported)                         |
| Operating System / SDK   | •                                                                                                                                                                                 | 1 x M.2 2280 Key M slot supports NVMe SSD (Pre-installed system BSP) |
| Operating Temp.          | NVIDIA® JetPack including Jetson Linux, NVIDIA® development tools<br>-25°C ~ 70°C (-13°F ~ 158°F), ambient w/ 0.6m/s airflow<br>*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               |
| Shock                    | MIL-STD-810G – Method 514.6, Procedure I, Category 4                                                                                                                              |                                                                      |
| Power Input              | MIL-STD-810G, Method 516.6, Procedure I, Trucks and semi-trailers=15G (11ms) with SSD                                                                                             |                                                                      |
| Mechanical               | • 1 x M12 K-coded for DC-IN 9 ~ 60V                                                                                                                                               |                                                                      |
|                          | • Supports Smart Power Management, OCP and OVP                                                                                                                                    |                                                                      |
|                          | Aluminum Alloy                                                                                                                                                                    |                                                                      |
|                          | Fanless Passive Cooling Design                                                                                                                                                    |                                                                      |
|                          | DIN-Rail, Wall Mount                                                                                                                                                              |                                                                      |
|                          | 1870 g                                                                                                                                                                            |                                                                      |
|                          | 270,2 mm (L) x 270,2 mm (W) x 69 mm (H)                                                                                                                                           |                                                                      |

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

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

**Optional Accessories**

**GPS: mPCIe GPS Module**

**UPS: BAT-2300v2**

**GMSL Camera**