

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 / 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)**

**IBOX-601-M12X-00-ONX16-S05**

**System**

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

**- 2 x M12 X-coded for 1 x 2.5GbE & 1 x GbE  
( 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**

**Interface**

**- 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)**

**- 1 x Nano SIM card slot**

**- 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 with nano SIM card slot**
  - 
  - 1 x mPCIe full-size slot (USB.2.0 supported)**

**INTERNAL EXPANSION**

**STORAGE (Internal)**

- 1 x M.2 2280 Key M slot supports NVMe SSD (Pre-installed system B**

**Operating System / SDK**

**NVIDIA® JetPack including Jetson Linux, NVIDIA® development tools**

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

### **System**

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

### **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**
- **MIL-STD-810G – Method 514.6, Procedure I, Category 4**

### **Shock**

**MIL-STD-810G, Method 516.6, Procedure I, Trucks and semi-trailers=15 (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**

**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**