



0.00 EUR

incl. 19% VAT, plus shipping

- **NVidia Jetson Orin NX !**
- **8GB RAM !**
- **480GB SSD !**
- **4x FAKRA / 2-CH GMSL x2 !**

- **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-01-ONX8-S05

System

NVIDIA® Jetson™ Orin NX 8GB / 480GB SSD / Model M12 / 4x FAKRA / GMSL x2

Module

**NVIDIA® Jetson Orin™ NX 8GB – 70 TOPS
(1024 CUDA cores + 6-core ARM Cortex-A78AE CPU + 8 GB LPDDR5)**

Security

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

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System

NVIDIA® Jetson™ Orin NX 8GB / 480GB SSD / Model M12 / 4x FAKRA / GMSL x2

**- 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**
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 - 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

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System

NVIDIA® Jetson™ Orin NX 8GB / 480GB SSD / Model M12 / 4x FAKRA / GMSL x2

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