

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-G2-01-ONX8
NVIDIA® Jetson Orin™ NX 8GB / VDB-101 / 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)

Interface	- 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 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 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.	
	-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)	
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=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