

959.00 EUR

incl. 19% VAT, plus shipping

- **NXP i.MX !**
- **8x DI / 4x DO !**
- **CAN-BUS / CAN FD !**



**Support:**  [Specifications](#)

IBOX-500 is an ultra-compact fanless in-vehicle Computer with 5G or LTE connectivity. It utilizes NXP i.MX 8QuadXPlus Automotive AEC-Q100 Grade 3 Processor up to 1.2 GHz. IBOX-500 features an ultra-compact design which can easily fit into restricted spaces. As robust connectivity, the system can select 5G, LTE, GPS, and WIFI / Bluetooth by M.2 modules. It is the perfect solution for digital cluster and intelligent cockpit, and fleet management. Furthermore, it features smarter vehicle power Ignition and it can also effectively support cars in extreme weather and operating conditions, such as snowplows, Trucks, Buses, taxis, and Forklifts.

- Fanless
- NXP i.MX 8quadXPlus Automotive SoC (AEC-Q100 Grade 3)
- On-board LPDDR4 3GB and eMMC 5.1 32GB
- Built-in Accelerometer, Gyroscope, and Magnetic Sensor
- 3x CAN / CAN FD
- 1x DVI-D Single-Link (SINTRONES proprietary pin define)
- 8x DI, and 4x DO and 2x RS232
- 1x M.2 3042/3052 Key B, 1x M.2 2242 Key B, 1x M.2 Key A-E
- 1x Micro-SD SSlot
- 9-60V DC Power Input
- Operating Temp.: -40 - 70°C
- Optional 4G, 5G, WLAN, BT, GPS (M.2 modules)

Dimensions

214mm x 150mm x 43mm, 1000g (Barebone)

## Temperature

Operating : -40 - 70°C, ambient w/ 0.6m/s airflow  
Storage Temp: -40 - 80°C  
Relative Humidity: 10% RH - 90% RH (non-condensing)

## CPU

NXP i.MX 8QuadXPlus Automotive SoC (AEC-Q100 Grade 3)  
Integrated 4x ARM Cortex-A35 cores Up to 1.2 GHz  
1x ARM Cortex-M4F Core Up to 264 MHz

## Memory

On-board LPDDR4 3GB / eMMC 5.1 32GB

## Sensor

Build-in Accelerometer, Gyroscope and Magnetic Sensor

## Watchdog

1 - 255 Level Reset

## Graphics (CPU Guilt-in)

1x GC7000Lite with 4x Vec4 shader cores (16 execution units)  
Max Resolution (DVI-D Single Link): 1920x1080 @ 60Hz

## Inputs / Outputs

2x USB 3.2 5Gbps  
1x USB 2.0 OTG  
1x RJ-45 for GbE  
1x DVI-D Single Link  
1x RS232  
8x DI (5-60VDC)  
4x DO (5VDC, 100mA)  
3x CAN / CAN FD  
1x MicroSD Slot  
Internal:  
1x M.2 3042/3052 Key B for WWAN w/1 x nano SIM  
1x M.2 2242 Key B for GPS  
1x M.2 Key A-E for WIFI

## Vibration (with SSD) and Shock

IEC60068-2-64 Random, 2.5G@5-500Hz, 1hr/axis  
MIL-STD-810G, Method 514.6, Procedure I, Cat. 4, Operating  
Operating MIL-STD-810G Method 516.6, Procedure, Trucks and semi-trailers=15G (11ms) with SSD

## Certifications

CE, FCC Class A, E13, ECE R118

## Power Input:

9V-60V DC Power INput  
Automatics Recovery Short Circuit Protection  
Vehicle Power Ignition for Variety Vehicle  
Power off Delay Timer setting by Software