

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 Slot
- 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

CPU

Relative Humidity: 10% RH - 90% RH (non-condensing)

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

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|                                   |                                                                                                                                                                                                                                        |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Watchdog                          | 1 - 255 Level Reset                                                                                                                                                                                                                    |
| Graphics (CPU Guilt-in)           | 1x GC70000Lite with 4x Vec4 shader cores (16 execution units)<br>Max Resolution (DVI-D Single Link): 1920x1080 @ 60Hz<br>2x USB 3.2 5Gbps<br>1x USB 2.0 OTG<br>1x RJ-45 for GbE<br>1x DVI-D Single Link<br>1x RS232<br>8x DI (5-60VDC) |
| Inputs / Outputs                  | 4x DO (5VDC, 100mA)<br>3x CAN / CAN FD<br>1x MicroSD Slot<br>Internal:<br>1x M.2 3042/3052 Key B for WWAN w/1 x nano SIM<br>1x M.2 2242 Key B for GPS<br>1x M.2 Key A-E for WIFI<br>IEC60068-2-64 Random, 2.5G@5-500Hz, 1hr/axis       |
| Vibration (with SSD)<br>and Shock | MIL-STD-810G, Method 514.6, Procedure I, Cat.4, Operating<br>Operating MIL-STD-810G Method 516.6, Procedure, Trucks and<br>semi-trailers=15G (11ms) with SSD                                                                           |
| Certifications                    | CE, FCC Class A, E13, ECE R118<br>9V-60V DC Power INput                                                                                                                                                                                |
| Power Input:                      | Automatics Recovery Short Circuit Protection<br>Vehicle Power Ignition for Variety Vehicle<br>Power off Delay Timer setting by Software                                                                                                |