



Data sheet



# MOBIX-III Series - In-Vehicle Fanless Computer System



MOBIX III SERIES

Robust and powerful Video Server for Automotive Industry, the Mobix-III Series can be equipped with Intel® i3, i5, i7, i9 or Xeon® Processors and can operate up to 70 °C.

## Fanless Embedded System for Automotive Industry

Fibrenetix MOBIX-III Series is a fully-ruggedized video server, ideal for automotive environments where traditional computers cannot be deployed. MOBIX-III video server is designed to operate at high temperatures, in desert, vehicle and factory environments.

Up to 3x 2.5" SATA HDD Bay (1x Internal) with RAID 0, 1, 5 support. The MOBIX-III Series offers flexibility for any off-road and off grid applications.

## Main Applications

- Public Safety, Transportation
- Construction
- Oil and Gas
- Construction
- Water Industry



Public Transportation, Law Enforcement and Public Safety, Cash-in-Transit, Rental Cars and Driving Institutes, Heavy Equipment, Hazardous Goods...

6:0 MOBIX-III Series ENG

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## Technical Specifications

<b>Product Category</b>	<b>MOBIX-III Series</b>
<b>Processor</b>	Support 10th Gen Intel® CML S Processor (LGA 1200, 65W/35W TDP) - Intel® Xeon® W-1290TE, 10 Cores, 20MB Cache, up to 4.5 GHz - Intel® Xeon® W-1270TE, 8 Cores, 16MB Cache, up to 4.4 GHz - Intel® Xeon® W-1250TE, 6 Cores, 12MB Cache, up to 3.8 GHz - Intel® Core™ i9-10900E, 10 Cores, 20MB Cache, up to 4.7 GHz - Intel® Core™ i9-10900TE, 10 Cores, 20MB Cache, up to 4.5 GHz - Intel® Core™ i7-10700E, 8 Core, 16MB Cache, up to 4.5 GHz - Intel® Core™ i7-10700TE, 8 Cores, 16MB cache, up to 4.4 GHz - Intel® Core™ i5-10500T, 6 Cores, 12MB Cache, up to 4.2 GHz - Intel® Core™ i5-10500TE, 6 Core, 12MB Cache, 3.7 GHz - Intel® Core™ i3-10100T, 4 Cores, 6MB cache, up to 3.8 GHz - Intel® Core™ i3-10100TE, 4 Cores, 9MB Cache, up to 3.6 GHz
<b>Core Logic</b>	Intel® W480E Chipset
<b>Network</b>	GbE1: Intel I219 (Support Wake-on-LAN and PXE) GbE2: Intel I210 (Support Wake-on-LAN and PXE)
<b>Audio Codec</b>	Realtek ALC888S
<b>Memory</b>	2x 260-Pin DDR4 2666/2933MHz SODIMM. Max. up to 64GB (ECC and Non-ECC)
<b>Graphics</b>	Intel® UHD Graphics 630
<b>Display</b>	Display Port 2x DisplayPort, support resolution 4096 x 2304, DP++ DVI 1x DVI-I, support resolution 1920 x 1200 Multiple Display Triple Display VGA Yes (by optional split cable)
<b>M.2</b>	1x M.2 (E Key, PCIe x1, USB 2.0, 2230)
<b>SSD/HDD</b>	1x Internal 2.5" SATA HDD/SSD Bay (support H=9mm) 2x Removable 2.5" SATA HDD/SSD Bay (support H=7mm, Hot-swappable) Support RAID 0, 1, 5
<b>SIM Socket</b>	2x External SIM socket 1x Internal SIM socket
<b>Expansion Modules</b>	2x Full-size Mini PCIe Occupied One Universal I/O Slot: • 4-port GbE module with Intel® I350 Chipset, RJ-45 or M12 connector (PoE optional) • 2-Port RJ45 10GbE with Intel X710 Chipset • 4-Port USB with Renesas uPD720201K8 host controller (share PCIe Gen2 x1 bandwidth) • 1x M.2 for 5G (B Key, PCIe x4, USB 3.0, 3042/3052), Including 2x SIM socket, 1x SIM switch (1x Universal Slot Only)
<b>I/O Ports</b>	COM : 2x RS-232/422/485 ; 6x RS-232/422/485 (internal) USB : 6x USB 3.2 Gen 2 (10 Gbps), 3x USB 3.2 Gen 1 (5 Gbps, 1x Internal), 2x USB 2.0 header (internal) CAN : 2x CAN 2.0 A/B 2-pin Internal header LAN : 2x RJ45 Audio : 1x Mic-in, 1x Line-out DIO : 8 in / 8 out (Isolated) Universal I/O Bracket : 2x Universal I/O Bracket (By mini PCIe interface) Others : 5x WiFi Antenna Holes, 1x Power Switch, 1x AT/ATX Switch, 1x Remote Power On/Off, 1x PC/Car Mode Switch, 1x Delay Time Switch, 1x Removable CMOS Battery, 4x 4-Pin Power Connector, 1x 4-PIN FAN Connector
<b>Operating System</b>	Windows 10 Linux kernel
<b>Power Connector</b>	5-pin Terminal Block (9~48VDC) 3-pin Terminal Block (48~110VDC, Optional)
<b>Power Adaptor</b>	Optional 1 : AC/DC 24V/5A, 120W Optional 2 : AC/DC 24V/9.2A, 220W
<b>Power Protection</b>	OVP (Over Voltage Protection); OCP (Over Current Protection) Reverse Protection
<b>Operating Temperature</b>	-25°C to 70°C (35W/65W CPU)
<b>Storage Temperature</b>	-30°C to 85°C
<b>Relative Humidity</b>	10% to 95% (non-condensing)

\*Specifications are subject to change, without prior notice

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<b>Product Category</b>	<b>MOBIX-III Series</b>
<b>Vibration</b>	With SSD: 5 Grms, 5 - 500 Hz, 0.5 hr/axis With HDD: 1 Grms, 5 - 500 Hz, 0.5 hr/axis
<b>Shock</b>	With SSD: 50G, half sine, 11ms
<b>Standard/Certification</b>	CE, FCC Class A, E-Mark, EMC Conformity with EN50155 & EN50121-3-2
<b>Dimensions</b>	240 (W) x 261 (D) x 79.2 (H) mm
<b>Weight</b>	3.1~3.5 kg
<b>Mounting</b>	Wall Mounting
<b>Warranty Period</b>	3 Years
<b>BTU/hr</b>	Optional 1 : 409,2 Optional 2 : 752,9

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