

BPC-iMX91-01

Industrial Computer



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Overview:

BPC-iMX91-01 is a fanless mini box pc utilizing DEBIX Model D SBC. It's an easy to use computer. Insert the Micro SD card, press the ON/OFF button, then you power it on.

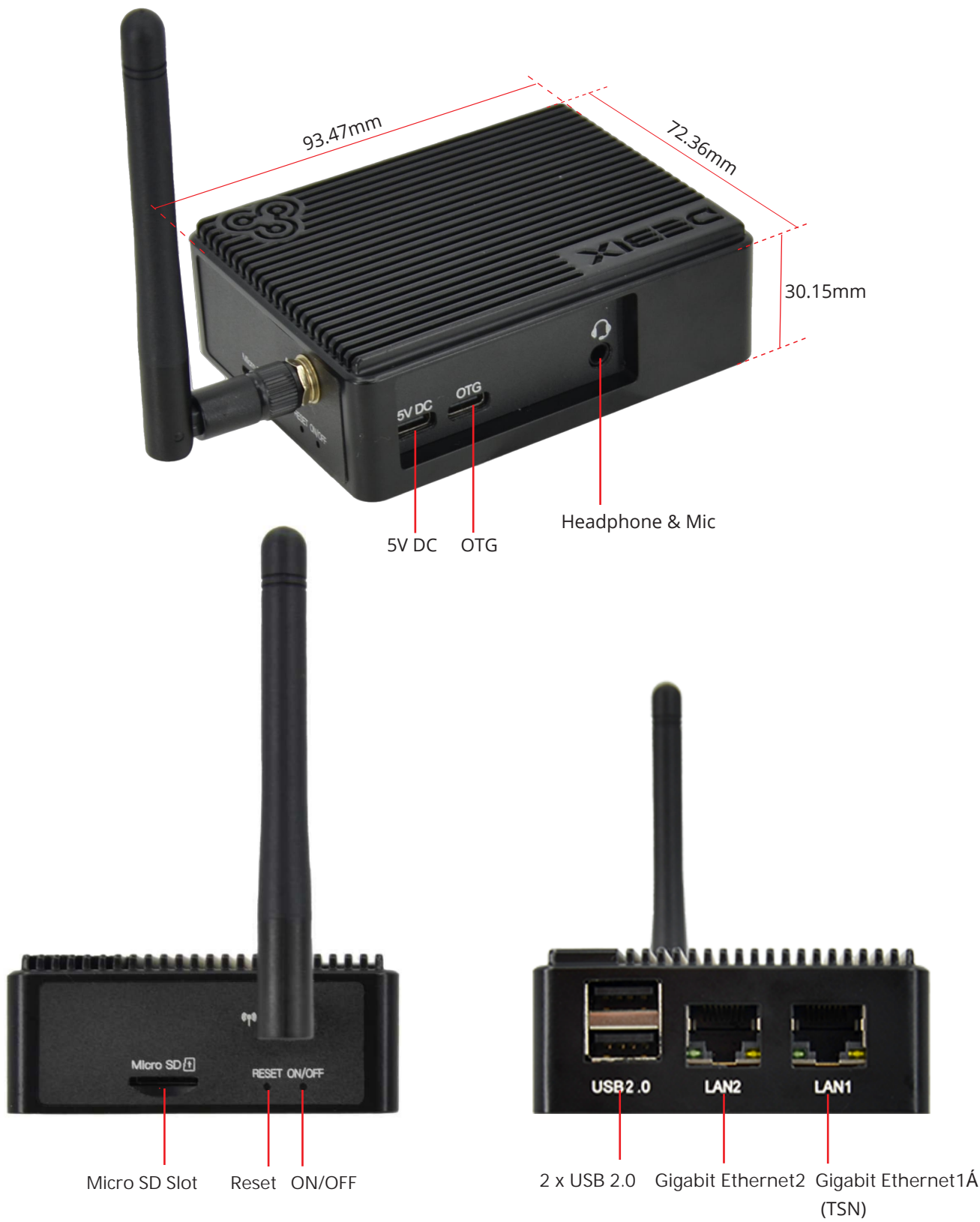
Main Features:

- Compact size, durable aluminum alloy case
- Fanless design with increased surface area for enhanced heat dissipation
- Dual-Gigabit Ethernet network and three USB 2.0 to bring an efficient data transmission speed
- 1 x 3.5mm headphone and mic combo
- 1 x Wi-Fi&BT antenna
- With NXP i.MX 91 processor 1.4GHz and a full load power consumption of 1.24W
- For IoT edge, contactless HMI, smart home, building control and industrial applications

Specification:

System	
Motherboard	DEBIX Model D
Memory	1GB LPDDR4 (2GB optional)
Storage	8GB/16GB/32GB/64GB/128GB/256GB Micro SD card (eMMC optional)
OS	Yocto, Zephyr
I/O Interfaces	
Gigabit Ethernet	1x Gigabit Ethernet port, support TSN and POE powersupply (need POE powerdevice module) 1x Gigabit Ethernet port(POE powersupply is not supported)
Wi-Fi & Bluetooth	2.4GHz & 5GHz Wi-Fi 4 and Bluetooth 5.2, external SMA antenna for Wi-Fi&BT
USB	1 x Type-C USB for DC 5V power input 1 x Type-C USB as a USB OTG 2 x USB 2.0 Host Type-A
Audio	1 x 3.5mm Headphone and Mic combo port
Slot	1 x Micro SD Slot
KEY	1 x RESET KEY 1 x ON/OFF KEY
Mechanical & Environmental	
Material	Aluminum alloy
Dimension	93.47mm x 72.36mm x 30.15mm (±0.5mm)
Net Weight	192g (±0.5g)
Operating Temp.	-20°C to 70°C, -40°C to 85°C (optional)
Power Supply	
Power Adapter	DC 5V/2A

I/O Interfaces and Dimension:



Ordering Codes:

RAM LPDDR4	eMMC Storage	PN for BPC-iMX91-01 -20°C ~70°C	PN for BPC-iMX91-01 -40°C ~85°C
1GB DDR	N/A		BPC-iMX91-01-I-D1E0
	8GB	BPC-iMX91-01-D1E8	BPC-iMX91-01-I-D1E8
	16GB	BPC-iMX91-01-D1E16	BPC-iMX91-01-I-D1E16
	32GB	BPC-iMX91-01-D1E32	BPC-iMX91-01-I-D1E32
	64GB	BPC-iMX91-01-D1E64	BPC-iMX91-01-I-D1E64
2GB DDR	N/A		BPC-iMX91-01-I-D2E0
	8GB	BPC-iMX91-01-D2E8	BPC-iMX91-01-I-D2E8
	16GB	BPC-iMX91-01-D2E16	BPC-iMX91-01-I-D2E16
	32GB	BPC-iMX91-01-D2E32	BPC-iMX91-01-I-D2E32
	64GB	BPC-iMX91-01-D2E64	BPC-iMX91-01-I-D2E64

Compatible with DEBIX's Accessories:

Product	Model
SBC POE Board	EMB-AS-06

Safety Instruction:

To avoid malfunction or damage to this product please observe the following:

- Disconnect the device from the DC power supply before cleaning. Use a damp rag. Do not use liquid detergents or spray-on detergents.
- Keep the device away from moisture.
- During installation, put the device on a reliable table. It will be damaged if you drop it.
- Before connecting the power supply, ensure that the voltage is in the required range.
- Put the power cable in place to avoid stepping on it.
- If the device is not used for a long time, power it off to avoid damage caused by sudden overvoltage.
- For safety reasons, the device can only be disassembled by professional personnel.
- Do not place the device outside its specified ambient temperature range. This will damage the machine. It needs to be kept in an environment at controlled temperature.

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