15.6" Modular Industrial Panel

Industrial Computer

DEBIX

15.6" Modular Industrial Panel Based on NXP i.MX 8M Plus CPU

Main Features:

· Three touch screen sizes for options, including 10.1", 11.6" and 15.6"
· 2 x 10/100/1000Mbps RJ45 network, 2.4GHz & 5GHz Wi-Fi (4G optional)
· 4 x RS232, 2 x RS485/RS232, 4 x USB 3.0 Host, 2 x USB 2.0 Host
· 1 x HDMI, 1 x 3.5mm headphone

Description:

The i.MX 8M Plus of applications processors combines scalable platforms with broad levels of integration and power-efficient processing capabilities. The modular panel provides flexible solutions based on quad core i.MX 8M Plus, targeted at both com-mercial and industrial applications.

It consists of a front display screen and a back-end fanless computer, which allows cus-tomers to select the back-end module with an appropriate processor, and flexibly match it to a 10.1"/ 11.6"/ 15.6" touch screen. In this way, it helps to reduce time and cost in the future maintenance, upgrade and production process.
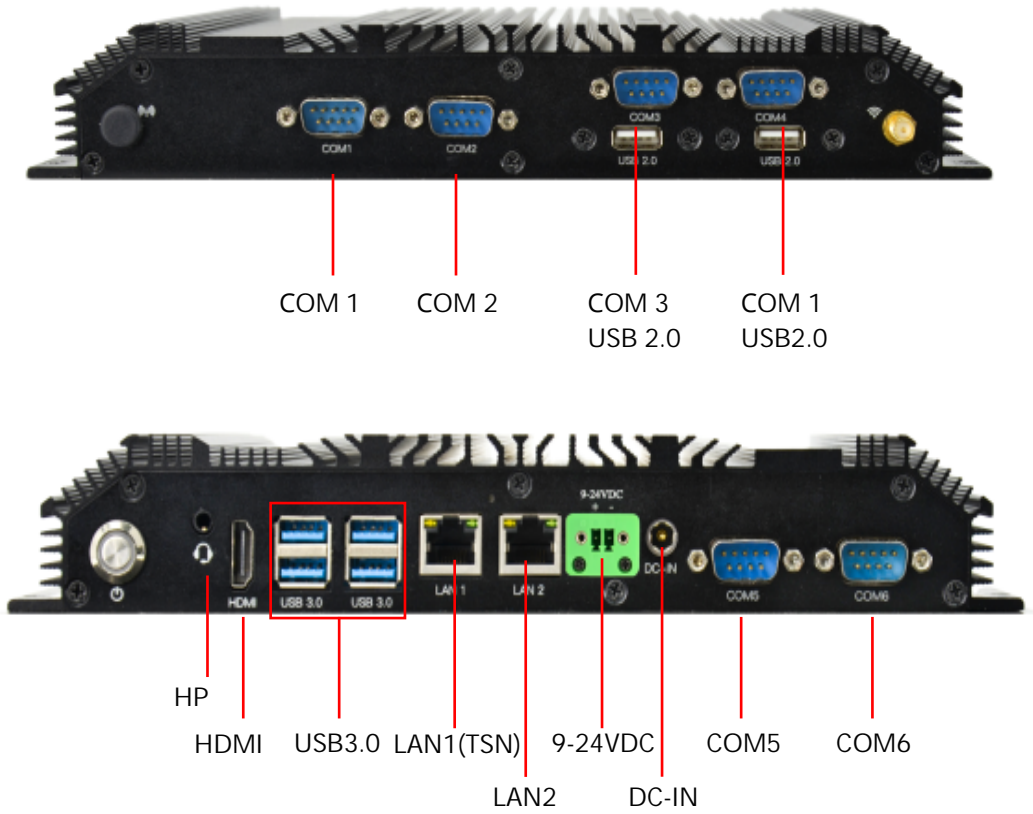
Specification:

System	
CPU	NXP i.MX 8M Plus (default), 4 x ARM Cortex-A53, comes with an integrated neural processing unit (NPU) that delivers up to 2.3 TOPS. Industrial grade CPU runs at 1.6GHz, and commercial grade CPU runs at up to 1.8GHz. (i.MX 8M Plus series CPU optional)
Memory	2GB LPDDR4 (4GB/8GB optional)
Storage	16GB eMMC (8GB/32GB/64GB/128GB/256GB optional)
OS	Android 11, Yocto-L5.10.72_2.2.0, Ubuntu 22.04, Windows 10 IoT Enterprise Note: 4GB/8GB LPDDR4 supports Windows 10 IoT, recommend 8GB version.
Video & Audio	
Touch Screen	15.6" 1024 x 768 10-point capacitive touch screen (10.1"/11.6" screen optional)
Display Interface	1 x HDMI
Audio Interface	1 x 3.5mm headphone
Front I/O	
Power Switch	1 x Power switch
Power Input	1 x DC IN, supports 5.5mm x 2.1mm plug; 1 x 2Pin 3.81mm Phoenix
Network	2 x 10/100/1000Mbps RJ45 network port, 2.4GHz & 5GHz Wi-Fi 4G (optional)
USB	4 x USB 3.0 Host Type-A
COM	2 x RS485/RS232 (RS485 for default)
Rear I/O	
COM	4 x RS232
USB	2 x USB 2.0 Host Type-A
Antenna Connectors	1 x WIFI antenna connector, 1 x 4G antenna connector (optional)
Mechanical & Environmental	
Enclosure	Black color, made of aluminum alloy
Dimension	261mm x 136mm x 39mm (Back-end computer module, not include the screen)
Weight	3.94kg
Cooling	Fanless design, with radiator for heat dissipation
Mounting	VESA
Operating Temp.	Commercial: 0℃~+70℃ Extended Commercial: -20℃~+70℃ Industrial: -40℃~+85℃

Industrial Panel Photos:

Back-end Computer Photos:

COM 1   COM 2   COM 3   COM 1

USB 2.0   USB2.0

HP

HDMI   USB3.0   LAN1(TSN)   9-24VDC   COM5   COM6

LAN2   DC-IN

Other Panel Sizes For Options:

10.1 Inches

11.6 Inches

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 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 the specified ambient temperature range. This will damage the machine. It needs to be kept in an environment at controlled temperature.

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