

Model: MPCX-Ultra

Industrial AI Embedded Computer - with Intel® Core Ultra 5/ Ultra 7 / Ultra 9 Processor



Main Feature

- DDR5-5600 SO-DIMM memory support up 96GB
- M.2 E & B Key 2230 for wireless BT module, and M key2280 for storage installation
- 6 x COM ports, Gigabit LAN, Audio
- VGA + HDMI (or DP + HDMI), 6 - 8 x USB 2.0/3.2
- BIOS Set-up “TPM 2.0”, “Auto Power-On”, and “Wake on LAN”
- 20 ~ 60 °C extended operating temperature

Specification	
Item	Description
Product Model	MPCX-Ultra
Processor	Intel® Core™ Ultra 5 125U (12 x Cores, 4.3GHz, NPU AI boost TOPS (Int8) 11) Intel® Core™ Ultra 7 155U (12 x Cores, 4.8GHz, NPU AI boost TOPS (Int8) 11) Intel® Core™ Ultra 5 225U (12 x Cores, 4.8GHz, NPU AI boost TOPS (Int8) 12) Intel® Core™ Ultra 7 255H / Ultra 9 285H (Optional add Cooling fan)
Chipset	Intel® integrated with processor
Memory	2 x DDR5 SO-DIMM Socket up to 96GB
BIOS	AMI 128MB Flash ROM
Graphic	Intel® Graphics eligible, Dual Display; VGA + HDMI (Default) or DP + HDMI (supports 1 x HDMI 2.1 and 1 x DP 1.4a: Up to 7680x4320@60Hz)
Storage	Space for 1 x 2.5" bay for SATA SSD/HDD; 1 x M.2 2280 NVME (PCIe 4.0)
Audio	ALC897, 6 channel HD Audio, Line-In/Out & Mic.-In
LAN	1 x RJ45, Intel I219V (Default) (Optional: Dual GAN with Realtek 8111H)
USB port	2 x USB 3.2 and 6 x USB 2.0
COM Port	6 x RS 232 (COM 1 supports RS232/422/485)
Watch-Dog Timer	Programmable 0 sec. to 255 min, support Hardware Reset
Expansive interface	1x M.2 Key-E 2230 PCIe4.0 (Support Wi-Fi & Bluetooth module). 1x M.2 Key-B 3042 (Support 5G or 4G (3042) module)

I/O port	VGA + HDMI (or DP + HDMI); RJ45; 2 x USB 3.2; 6 x USB 2.0; 6 x COM; Audio Lin-out
Power Supply	Input: 100-240VAC, 50/60Hz; Output: DC 12V/ 10A adapter
Construction	Oxidized Aluminium Case
OS supporting	Windows 10/11; Linux - Ubuntu...
Environment	Operating temperature: -20 °C to 60 °C Storage temperature: -20 °C to 80 °C Storage humidity: 5% to 95%non-condensing Vibration: 17 to 500HZ 1G PTP; Shock: 1G /peak(11m sec)
Compliance	CE; FCC; ROHS
Dimension W x H x D	234 x 200 x 52