

SMART 9550 Ultra 5 MP

Intel® Meteor Lake Series CPU-based Embedded Mini PC supports up to four displays with Intel® AI Boost NPU



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INTRODUCTION

The **Smart 9550 Ultra 5 MP** is a compact yet powerful embedded mini PC designed to meet the demands of next-generation industrial, AI, and edge computing applications. Powered by Intel® Meteor Lake Series CPUs with 12 cores, it delivers exceptional performance backed by advanced Intel® Graphics. With support for up to four simultaneous displays, dual-channel DDR5 memory expandable to 96GB, and an integrated Intel® AI Boost NPU compatible with leading AI frameworks, the **Smart 9550 Ultra 5 MP** is purpose-built for high-performance workloads at the edge.

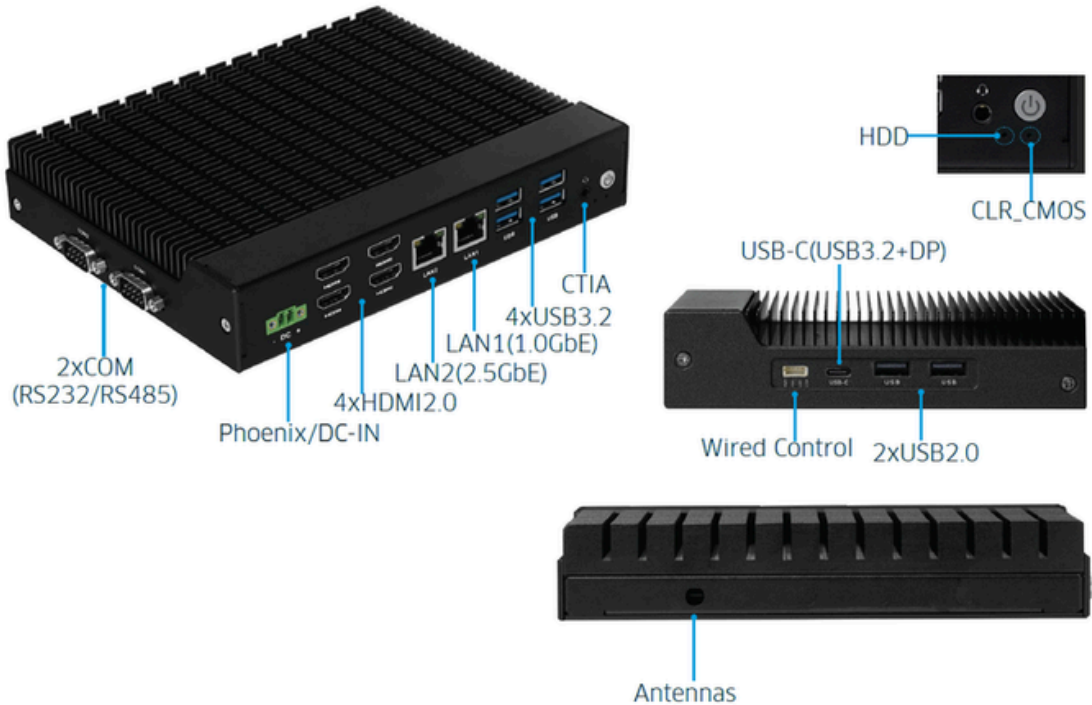
PRODUCT HIGHLIGHT

- CPU: Intel® Meteor Lake U/H Processor
- Memory: Dual Channel SO-DIMM DDR5 up to 96GB
- GPU: Integrated Intel® Graphics, Max Four Displays
- Ethernet: 10/100/1000/2500Mbps
- Storage: M.2 Key M for NVMe SSD, M.2 Key B for SATA SSD/4G
- I/O Ports: 2xLAN, 2xCOM, 4xUSB3.2, 2xUSB2.0, 4xHDMI, USB-C
- Expansion: M.2 Key E for Wi-Fi(support CNVi, PCIe&USB), Nano SIM
- Power: 19V DC-IN/9-36V Phoenix optional
- Support Intel® AI Boost NPU, HDMI Hot-Plug Lock, RTC/W

TECHNICAL SPECIFICATION

CPU	Intel Core™ Ultra 5 125U
Total Cores/Threads	12 Core / 14 Threads
Frequency	P-core Max Turbo Frequency 4.30 Ghz, E-core Max Turbo Frequency 3.60 Ghz
Cache	12MB Intel® Smart Cache
Processor Base Power	15W
BIOS	AMI UEFI BIOS
GPU & NPU	Intel® Graphics & Intel® AI Boost
AI Software Frameworks	Supported by NPU: OpenVINO™, WindowsML, ONNX RT. DirectML
Memory	Dual Channel SO-DIMM DDR5 Max 96 GB
Display	4x HDMI2.0+USB-C(DP1.4)
	Four Screens for Multiple Displays
	HDMI Hot-Plug Lock
Network	Controller: LAN1: 1xIntel i219(1.0GbE), LAN2: 1xIntel i226(2.5GbE)
	1x RJ45 10/100/1000Mbps & 1x RJ45 10/100/1000/2500 Mbps
	Wake on LAN
Audio	Realtek ALC897 High Definition Audio Codec
	1x CTIA 2 in 1 Audio Jack. Support Line-out+Mic-in.
Storage	1x M.2 Key M 2280 Slot for NVMe SSD 1x M.2 Key B 2280/3042 Slot for SATA SSD/4G Module.
Serial Ports (COM)	2x COM(RS232 by default, RS485 optional)
Expansion M.2	1x M.2 Key E 2230 Slot for Wi-Fi&BT Module. Support CNVi, PCIe & USB.
	1x Internal Nano SIM Slot
USB Ports	2x USB 2.0, 4x USB 3.2,
USB-C	1x USB-C(Supports USB3.2 plus DP1.4)
Wired Control	1x Wired Control
TPM	Onboard, optional
Real Time Clock RTC	Support RTC set up, independently for each day of the week
Size	190mm x 150mm x 35mm
Weight	TBD
Power Standard Port	19V DC-IN
Power Optional	9-35V Phoenix Connector
Operating Temp.	- 20°C to 60°C
Storage Temp.	- 40°C to 80°C
Cooling Method	Passive(U Series Processors)
Operating System	Windows 11 64bit, Linux 64bit

I/O INTERFACES



Engineered with robust connectivity, the system includes dual 2.5Gbps LAN ports, multiple USB and COM ports, and flexible storage options through M.2 NVMe or SATA SSDs. New productivity-focused features such as HDMI Hot-Plug lock for consistent display stability and weekly programmable RTC provide greater control and scheduling flexibility. Its rugged design, wide operating temperature tolerance, and intelligent cooling system ensure reliable operation even in challenging environments



H/W Monitor



Watchdog



APURVA COMPUTERS TECHNOLOGIES PVT. LTD.

Corporate Office: 1210, 12th Floor, One World West, Bopal Approach BRTS Bus stop, Near Vakil Saheb Bridge, Bopal, Ahmedabad-380058 (Gujarat) India.

Registered Office: 2nd Floor, Manivir Complex, Vitthal Press Road, Surendranagar-363001 (Gujarat), India

Toll Free 8800 860 861 **Email:** sales@smartstation.in

Website: www.smartstation.in



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