



WNAI-E800S Industrial Edge AI Computer with Intel(R) Raptor Lake-S processor

Manufacturer part number: WNAI-E800S | Edge AI Computing



Winmate WNAI-E800S industrial edge AI computer with Intel Raptor Lake-S and NVIDIA RTX GPU support for machine vision, AI inference, and automation.

System Specification	
Processor	Supporting Intel(R) 12/14th-Gen Core(TM) CPU (LGA1700 socket, 65W/45W/35W TDP), Intel(R) Core(TM) i7-14700T(up to 5.2GHz) (Default), Intel(R) Core(TM) i7-12700TE(up to 4.6GHz) (Optional), Intel(R) Core(TM) i9-12900TE(up to 4.8GHz) (Optional), Intel(R) Core(TM) i5-14500T(up to 4.8GHz) (Optional), Intel(R) Core(TM) i9-14900T(up to 5.5GHz) (Optional), Intel(R) Core(TM) i9-14500(up to 5.0GHz) (Optional), Intel(R) Core(TM) i7-14700(up to 5.4GHz) (Optional), Intel(R) Core(TM) i9-14900(up to 5.8GHz) (Optional)
Chipset	Intel(R) R680E
Memory	2 x non-ECC SO-DIMM RAM, up to 96GB (48GB per DIMM)
Storage	128GB SSD (Default), 256GB SSD (Optional), 512GB SSD (Optional), 1TB (Optional), 2TB (Optional), 4TB, 2 x SATA III for 2.5" SSD/HDD up to 2TB(RAID support) (Optional)
Ethernet controller	3 x Intel(R) 2.5 Gigabit Ethernet Controller
Security	TPM 2.0
Operating System	Windows 10 IoT Enterprise (64 bit) (Optional), Windows 11 IoT Enterprise (64 bit) (Optional), Windows 11 Pro 64 bit (Optional), Linux Ubuntu 24.04(Do not support Wake on Touch) (Optional)
WLAN	Support (Optional)
BT	Support (Optional)
Graphic Card	Supports high-end NVIDIA RTX GPUs (e.g., GeForce RTX 5080 or RTX PRO 6000 Blackwell), Other GPU options are available upon request. (Optional)
Mechanical	
Dimension	360 x 170 x 196 mm
Weight	7.85kg
Mounting	Desk mount
Enclosure	Metal Housing
Cooling System	Fan Design
Environment	
Operating Humidity	10% to 90% RH, Non-Condensing
Operating Temperature	-25 deg C to 60 deg C
Storage Temperature	-40 deg C to 70 deg C
Certification	
Certification	CE, FCC

IO Ports	
USB Port	6 x USB3.2 Gen 2x1 (Type-A)
Serial Port	2 x RS232/422/485 (Default RS232)
LAN	3 x 2.5 Giga LAN RJ45 Connector
Video	1 x DP1.4a DP++ , Max resolution up to, 4096x2160@60Hz (Default), 1 x HDMI 2.0b , Max resolution up to, 4096x2160@60Hz (Optional)
Audio	Mic in, Line out
SIM Card Slot	1 x nano SIM slot
Expansion Port	1 x M.2 2230 E-Key Slot (for Wi-Fi module), 1 x M.2 3042/3052 B-Key Slot (for WWAN module), 1 x PCIe x16 slot, 16-lanes, for NVIDIA(R) RTX(TM) GPU cards, 1 x PCIe x8 slot, 8-lanes (Only available when PCIe x16 signal is not present), 2 x PCIe x8 slot, 4-lanes
Power Input	3+4 pin terminal block for DC 8-48V input.Max. to 1000W
Drive Bay	Swappable 2.5" HDD/SSD Bay Slot
Control	
Button	1 x Power Button with LED Indicator, 1 x Clear CMOS Button
Accessory	
Accessory	1 x Terminal Block 3-pin connector for Power, 1 x Terminal Block 4pin connector for Power, 1 x Open Wire Cable