



WNAI-E600 Edge AI Computer with NVIDIA(R) Jetson AGX Orin(TM)

Manufacturer part number: WNAI-E600 | Edge AI Computing



Winmate WNAI-E600 Jetson AGX Orin edge AI computer delivers up to 275 TOPS, 10GbE and GMSL2 camera support for machine vision and smart vehicles.

System Specification	
Processor	NVIDIA(R) Jetson AGX Orin(TM) , AGX Orin 32GB: 8core Arm(R) Cortex(R)A78AE CPU (Default), AGX Orin 64GB: 12core Arm(R) Cortex(R)A78AE CPU (Optional)
Memory	AGX Orin 32GB: 32GB 256bit LPDDR5 204.8GB/s (Default), AGX Orin 64GB: 64GB 256bit LPDDR5 204.8GB/s (Optional)
Storage	1 x 64GB eMMC 5.1 (Default), 2 x M.2 2280 Mkey NVMe SSD (Max 4 TB)(When the PoE function is enabled, only one 1 x SSD is supported) (Optional), 1 x MicroSD (Max 512GB) (Optional), 1 x 2.5" SSD/HDD (Optional)
Ethernet controller	1 x 10GbE LAN, 1 x Giga LAN (Default), 4 x LAN support PSE IEEE 802.3af (Optional)
Security	TPM 2.0
Operating System	Linux (Support NVIDIA Jetpack 6.2)
WLAN	Support (Optional)
BT	Support (Optional)
WWAN	Support (Optional)
GPS	Support (Optional)
Expansion Port	1 x M.2 2230 E-key Slot (for WiFi+BT), 1 x M.2 3042/3052 B-key Slot (for 4G/5G)
Mechanical	
Dimension	250 x 170 x 91.5 mm
Mounting	Desk Mount
Enclosure	Metal Housing
Cooling System	Fanless Design
Environment	
Operating Humidity	10% to 90% RH, Non-Condensing
Operating Temperature	30W TDP Mode: -25 deg C to 60 deg C with 0.63 m/s air flow, 40/50W TDP Mode: -25 deg C to 45 deg C with 0.63 m/s air flow
Storage Temperature	-25 deg C to 60 deg C
Certification	
Certification	CE, FCC
IO Ports	

USB Port	4 x USB 3.2 Gen 2 (Type-A) , 2 x USB2.0 (wafer) , 1 x Micro USB for debug port , 1 x USB Type-C for OS flash
Serial Port	2 x DB9 for RS232(Rx/Tx/CTS/RTS)/RS422/RS485
LAN	1 x RJ45 for 10Gbe LAN, 1 x RJ45 for Giga LAN (Default), 4 x RJ45 for GbE PoE 802.3af(PSE) (This function is mutually exclusive with GMSL) (Optional)
Video	1 x HDMI 2.0b , Max resolution up to 3840x2160@30Hz (Optional)
SD Card Slot	1 x MicroSD Slot(Max 512GB)
SIM Card Slot	2 x SIM Card slot
Expansion Port	1 x M.2 2230 E-key Slot (for WiFi+BT), 1 x M.2 3042/3052 B-key Slot (for 4G/5G)
Indicator	1 x LED Indicator for power, 1 x LED Indicator for SDD
DIDO	1 x Isolated 8in/8out DIO with 20-Pin Terminal block :, 8 x Digital input channels with 2500 VDC isolation protection, - Wet contact:, Logic 0: 2 ~ 30 VDC/ Logic 1: 0 ~ 1 VDC, - Dry contact:, Logic 0: Shorted to GND/ Logic 1: Open, 8 x Digital output channels, - Output voltage: 5 ~ 30 VDC, - Output capability sink: 500 mA ax./channel
CANBUS	1 x DB9 for 2 Isolated CAN Bus support CAN FD
Power Input	1 x Isolated 9~36V DC with 3-Pin Terminal Block
GMSL	8 x GMSL2 with FAKRAZ (This function is mutually exclusive with POE) (Optional)
Control	
Button	1 x Power Button , 1 x Recovery Button, 1 x Reset Button
Accessory	
Accessory	1 x Terminal Block 3-pin connector for Power, 1 x Terminal Block 20-pin connector for DIDO, 1 x Open Wire Cable, Dest Mount Screws
Power	
Power Rating	9V to 36V DC (Default), ACC ignition control Function (Optional)
POE	PoE (PSE): follows IEEE 802.3af (15W)