

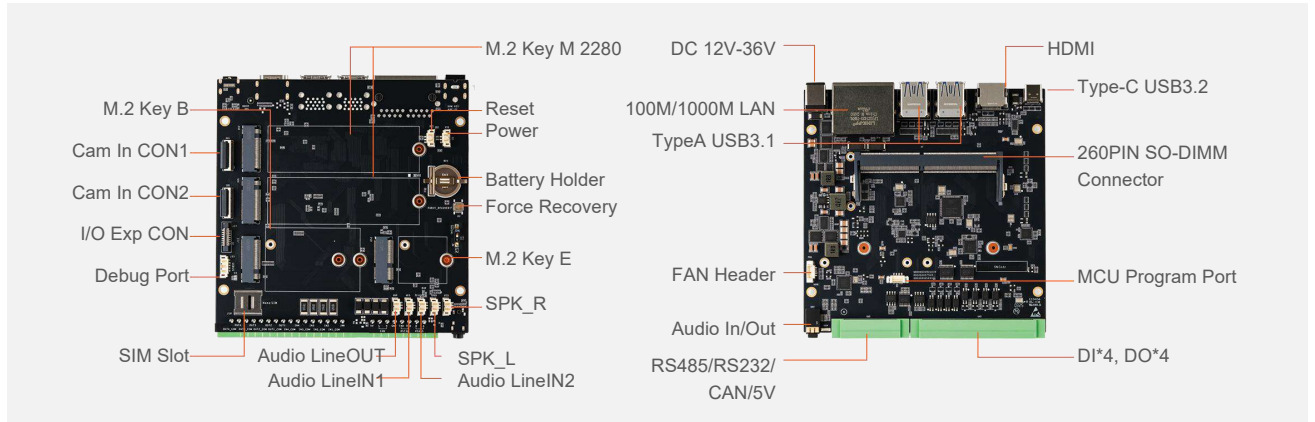
NeoEdge

Edge AI Box Carrier Board




NG4500-CB01



CamThink NG4500-CB01 is an extendable carrier board designed for the edge AI box NG4500 that requires differentiated computation power. The carrier board is compatible with NVIDIA® Jetson Orin™ Nano/NX platforms, and supports NVIDIA® Super Developer Kit, providing powerful edge AI computing capabilities. It is equipped with rich interfaces to simplify AI development and prototyping, suitable for application scenarios such as machine vision, industrial automation, robotics, and AIoT.



Key Features

-  Open-frame carrier board exposing all the available I/Os, and a range of accessories for fast development.
-  Rich interfaces for various applications: Ethernet port, USB 3.1, Type-C, RS232/RS485, CAN, HDMI, audio, video, etc.
-  Industrial-grade design: wide voltage input (12-36V) and wide operating temperature ranges from -25°C to 60°C, utilizes passive cooling techniques for fanless design.

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Specifications

Model Name	NG4500-CB01
I/Os	
Ethernet	2 x RJ45 (1000Mbps)
USB	4 x Type-A (USB3.1), 1 x Type-C (USB3.2)
Multi-functional port	4 x DI, 4 x DO, 4 x GND_DI, 4 x GND_DO, 1 x CAN, 1 x RS232, 1 x RS485, 1 x DC 5V Power (GND and RS232 shared Interface)
HDMI	1 x HDMI
Audio	1 x Audio Jack (Mic Input +AudioL/R output)
Button	1 x Power Button, 1 x Reset Button
Extensions	
SIM Card Slot	1 x Nano SIM Slot
RTC	1* CR2032 RTC Battery
Fan	1 x Fan Connector (5V PWM)
Communication	
M.2 Key B	M.2 Key B 2242/2252 support 4G/5G/Wi-Fi Halow (Module Optional)
M.2 Key E	M.2 Key E 2230 support Wi-Fi/Bluetooth
Storage	
SSD 1	1 x M.2 Key M PCIe*4_Gen3 SSD , 1 x M.2 Key M PCIe*1_Gen3 SSD
SSD 2	1 x M.2 Key M PCIe*4_Gen4 SSD , 1 x M.2 Key M PCIe*1_Gen4 SSD
LED Indicator	1 x Power LED, 1 x Wi-Fi LED, 1 x 4G LED
Power Supply	DC input 12V-36V
Mechanical	
Dimension	125 x 125 x 23mm
SMA Antenna Connector	6
Operating Temperature	-25° C to 70° C

Developer Supports and Services



Open frame carrier board and software guide



Tutorials for the LLMs integration on NG4500



Community support for AI developers

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