



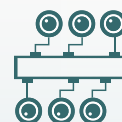
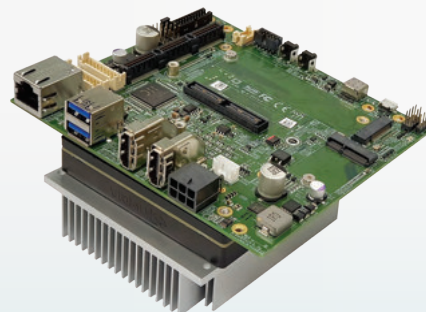
The Core of AI-enabled AGV **AX720-X32**

Lead to Smart Warehouse with Jetson AGX Xavier Platform

Aetina AX720-X32 makes the AI-powered autonomous robot practicable, running low around 10W-30W and delivering up to 32 TOPs. It leverages the powerful capabilities of the NVIDIA® Jetson AGX Xavier™, and also conforming to the 5G module slot standard with exceptional communication performance in edge AIoT.

AX720-X32 is equipped with M.2 slots and an extension board-to-board connector, bringing a higher level of system connectivities. The connector is supporting 2x 10G LAN port and 1x M.2 B Key 3050, which could well-integrate with 4G / 5G module. With this new function, AX720-X32 extended communication capability and increased the high-speed and high-bandwidth data transmission. It also supports 6x MIPI CSI-II with the long-wired cable that up to 10-15 meters long for SerDes vehicle cameras, its onboard 120-pins MIPI interface took the setting of NVIDIA reference design, which is accommodating to the general adapter board and camera modules in the market. This helps developers to deploy machine vision AI applications flexibly and shorten time-to-market.

Key Features



AX720-X32

- Powered by NVIDIA® Jetson AGX Xavier™ SoM
- Extension board-to-board connector for 10G LAN & M.2 B key
- 2x HDMI, 1x M.2 M key, 1x M.2 E key, 3x RJ-45
- 120-pins MIPI CSI-II connector for up to 6x cameras

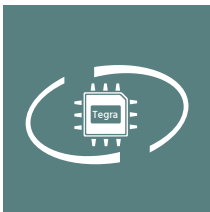
Specification

AX720-X32	
Processor	NVIDIA® Jetson AGX Xavier™ CPU : 8-core ARM® v8.2 , 64-bit CPU 8MB L2 + 4MB L3 GPU : 512 NVIDIA Volta™ architecture CUDA cores and 64 Tensor cores
Floating Points	11 TFLOPS (FP16) 32 TOPS (INT8)
Memory	32 GB LPDDR4x , 256-bit
Mass Storage	32 GB eMMC 5.1
Storage	1x Micro SD card slot
Networking	10/100/1000 RGMII Gigabit Ethernet
Video Output	2x HDMI Type A
Video Input	8 x2-Lane MIPI CSI-2 4 x4-Lane MIPI CSI-2
LAN	1x RJ-45 (Internal) 2x RJ-45 (Extension daughter board)
Serial	1x RS-232
USB	2x USB3.2 Gen1 Type A 1x USB3.2 Gen2 Type C 1x USB2.0 Micro AB OTG
Expansion Slot	1x M.2 M Key 1x M.2 E Key 1x 120-pins connector for MIPI CSI-2 1x Extension board-to-board connector
Others	1x Front Panel 5x GPIO 2x CAN 3x UART 1x 4-pin FAN connector 1x 6-pin Power connector
Dimensions	131 x 120 mm
Power Requirements	Wide Input 9.0 to 19.6V / 5A DC
Operating Temperature	-25 to +80°C



* Product Specifications are subject to change without prior notice

Comprehensive Support Services for Rapid Design-In Development



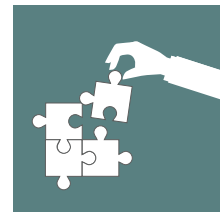
Product Service



Design Service



System Software Service



I/O Integration Service

Industrial Robots

- Merchandise AGV
- AMR for Agriculture, Mining, Logistics
- Production Operation
- Defective Detection

Service Robots

- Medical Assistant AGV
- Restaurant Services
- Security Rescue
- Environmental Cleaning