ADLINK Launches ROS 2 Robotics Controller Powered by

NVIDIA Jetson Platform for Edge AI Applications

ROScube-X controller leverages NVIDIA Jetson AGX Xavier to accelerate development of advanced robotics systems

New Delhi, India, June 16th, 2020 – ADLINK Technology, a global leader in edge computing, has launched the ROScube-X Series, a real-time ROS 2 robot controller for advanced robotics applications.

ADLINK's ROScube-X Series is powered by the NVIDIA® Jetson™ AGX Xavier module, which features an integrated NVIDIA Volta GPU, dual deep learning accelerators, and a wide variety of interfaces, including GMSL2 camera connectors for advanced robotics

system integration. The ROScube-X supports the full complement of resources provided by the NVIDIA JetPack™ SDK and is specifically suited for robotics applications demanding high-performance AI computing capabilities with minimal power consumption.

The ROScube-X features:

- Powerful AI computing for intelligent robotics development

- Excellent performance per watt with power consumption as low as 20W

- Ruggedized, secure connectivity with locking USB ports

- Comprehensive I/O for connecting a wide range of devices

- Time synchronization with GMSL2 camera and IMU

Robotic systems based on the ROScube-X are supported by ADLINK's Neuron SDK, a platform specifically designed for the professional robotic applications such as autonomous mobile robots (AMR). With the newly released ROS 2 Foxy Fitzroy (codename "foxy"), Neuron SDK customers can enjoy the benefits of long-term support (LTS), as well as ADLINK's quality-guaranteed services for ROScube.

"ADLINK is working closely with NVIDIA to empower high-performance AI computing at the edge and our new ROScube-X enables integrators to develop and deploy advanced robotics applications faster and easier than ever, allowing our industrial and commercial customers to take their business operations to next level and create new value in their product lines," said Dr. Ryan Chen, Director of the Advanced Robotic Platform Group at ADLINK. "We have also designed the ROScube-X as an integrated hardware and software solution which provides users a vantage point from which to optimize AI value

by enabling powerful and sustainable deployment of their models. This gives our customers a competitive edge by providing them with a platform to immediately develop robotics solutions and allowing them to choose their hardware solution at deployment time."

The NVIDIA Jetson embedded AI computing platform provides high-performance, low-power computing for deep learning and computer vision to make it possible to build software-defined autonomous machines. Now with cloud-native support, the platform includes small form-factor Jetson modules with GPU-accelerated parallel processing, the JetPack SDK with developer tools and comprehensive libraries for building AI applications, along with an ecosystem of partners with services and products that accelerate development.

"Customers can get advanced robotics products to market more quickly with ADLINK's expertise in edge computing and deep knowledge of the Jetson platform," said Murali Gopalakrishna, Head of Product Management, Autonomous Machines at NVIDIA. "Moreover, with support for cloud-native technologies now available across the NVIDIA Jetson lineup, manufacturers of intelligent machines and developers of AI applications can build and deploy high-quality, software-defined features on embedded and edge devices targeting robotics, industrial IoT and more."

The ROScube-X is available now. **For more information on ADLINK's robotics solutions, please visit https://www.adlinktech.com/en/ROS2-Solution**

ABOUT ADLINK

ADLINK Technology is a global leader in edge computing. Our mission is to affect positive change in society and industry by connecting people, places and things with AI. We do this through the delivery of leading edge, robust solutions addressing our customer's critical business and technology challenges. Our offerings include robust boards, modules and systems; real-time data acquisition solutions; and application enablement for Artificial Intelligence + Internet of Things (AIoT).

ADLINK serves customers in many vertical markets including: manufacturing, networking and communications, healthcare, military and aerospace, infotainment, retail, energy and transportation. We're a Premier Member of the Intel® Internet of Things Solutions Alliance, a partner of NVIDIA, and a contributor to many standards and interoperability initiatives, including Eclipse, OCP, OMG, PICMG, SGeT and ROS 2 TSC.

ADLINK's products are available in over 40 countries, either directly or through our worldwide network of value-adding distributors and systems integrators. ADLINK is ISO-9001, ISO-14001, ISO-13485 and TL9000 certified and is publicly traded on TAIEX (Stock Code: 6166).

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