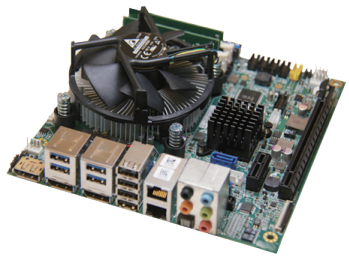
ROS starter kit

ROS 2 development board in compact Mini-ITX form factor

Features

- Mini-ITX embedded board
- Flexible hardware configuration
- Richable I/O interface
- GPU sufficient for AI computing
- Compatible with ROS/ROS 2



Introduction

The ADLINK ROS Starter Kit features flexible connectivity with a wide range of I/O ports and support for AI computation platforms. In addition, compatibility with open source ROS/ROS 2 supports full access to open-source application libraries for robot control, including vision, navigation, and motion control, for quick realization of ROS/ROS 2 function

Specifications

	ROS Starter Kit
System Core	
Processor	6th/7th generation Intel® Core™ i7/i5/i3 processors
	Intel® Pentium®/Celeron® processors
Memory	4GB /8GB /16GB/32GB
Display	
DisplayPort	3 ports with resolution up to 4096 x 2160 pixels resolution
Front Panel I/O Interface	
Ethernet	2x GbE
USB 3.0	4x USB 3.0 on rear I/O 2x USB 3.0 onboard header 1x USB 3.0 on vertical connector with keep out area for dongle
USB 2.0	4x USB 2.0 on rear I/O
Serial Port	1x RS-232/422/485 via onboard header
	3x RS-232 via onboard headers
Side Panel I/O Interface	
GPIO	10 GPIO via onboard feature connector
Other control signals	I^2C
Storage Device	
Serial ATA	64GB/128GB/256GB
Optional Expansion	
Expansion Slots	1 PCIe x16 Gen3 1 PCIe x1 Gen2 1 Mini PCIe (full size slot) supporting PCIe + USB or mSATA 1 Mini PCIe (half size slot) supporting PCIe + USB
Power Requirements	
DC Input	24V ±5%
AC Input	Optional 160W adapter
Mechanical	
Dimensions	170mm (W) x 170mm (D)
Weight	500 g
Environmental	
Operating Temperature	0˚C to 60˚C
Operating Humidity	10%~95% (non-condensing)
Storage Temperature	-20˚C to 80˚C
Software	
Environment	ROS/ROS 2
Middleware	ADLINK Opensplice DDS

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