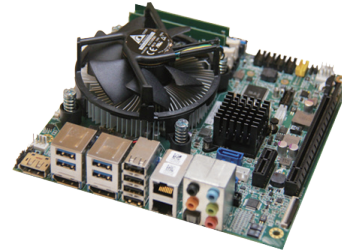


# ROS starter kit

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