EII-6101

Brain & Motion Robotic Controller

Powered by the NVIDIA® Jetson Orin Nano/NX Super module, this compact controller features strong anti-interference capability, rugged shock-resistant design, and rich I/O connectivity.



- Built with Jetson Orin Nano/NX Super modules
- Up to 16GB memory and 157 TOPS AI performance
- Up to 8 Arm® Cortex-A78AE cores, 2.0GHz
- 2 x Gigabit Ethernet ports
- 3 x USB 3.0 Type-A, 1 x USB 3.0 Type-C
- Supports Wi-Fi, Bluetooth, 4G/5G, and TPM 2.0
- Supports CAN bus and RS232/RS485 serial ports
- Automotive-grade device
- DC 9 – 36V wide-voltage input with OCP/OVP protection

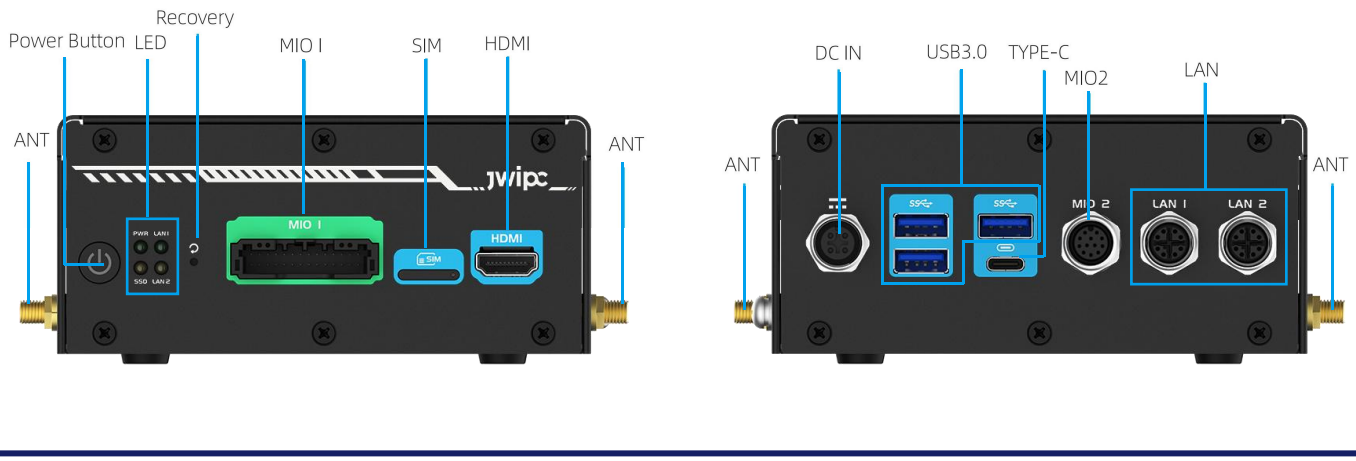
01 Specifications

Model		EII-6101-A	EII-6101-B	EII-6101-C	EII-6101-D
Processor System	Module	Orin Nano Super	Orin Nano Super	Orin NX Super	Orin NX Super
	Memory	4GB	8GB	8GB	16GB
	CPU	6-core A78AE 1.7GHz	6-core A78AE 1.7GHz	6-core A78AE 2.0GHz	8-core A78AE 2.0GHz
	NPU	34 TOPS	67 TOPS	117 TOPS	157 TOPS
	OS	Ubuntu 22.04			
I/O	USB	3 x USB 3.0 Type-A, 1 x USB 3.0 Type-C (supports OTG)			
	Serial Port	2 x RS232, 5 x RS485 (MIO 1: 1 x RS232, 4 x RS485, with 1 x 12V power output; MIO 2: 1 x RS232, 1 x RS485, with 1 x 24V power output)			
	CAN Bus	2 x CAN FD (MIO 1: 1 x CAN FD; MIO 2: 1 x CAN FD)			
	LED	4 x LED (1 x power, 1 x HDD, 2 x LAN indicators)			
	Button	1 x Power button, 1 x Recovery button			
Video	GPU	NVIDIA® Ampere GPU			
	Output	1 x HDMI 2.1, up to 4096 x 2160 @60Hz			
Storage	Storage Device	1 x M.2 2280 SSD (128GB/256GB/512GB/1TB/2TB optional)			
Network	Wired Network	2 x M12 aviation connectors, 10/100/1000Mbps			
	Wi-Fi/BT	1 x M.2 Key E for Wi-Fi/BT (supports Station/AP mode)			
	4G/5G	1 x M.2 Key B for 4G/5G			
Power	Power Input	9 – 36V DC-In			
Other	System Support	Ubuntu 22.04 (JetPack 6.2)			
	Watchdog Timer	255-level programmable sec/min			
	TPM	TPM 2.0			
	Debug	1 x TTL			
Install.	Mounting	Desktop / wall-mount			
Environment	Operating Temp.	-25° C to 70° C (65° C no throttle; 70° C throttled)			
	Storage Temp.	-40° C to 85° C (-40° F to 185° F)			
	Humidity	10% to 90%, non-condensing			
	Shock Resistance	Operating with SSD: 15G@11ms, half-sine			
	Vibration Res.	Operating with SSD: 2Grms@5 – 500Hz, IEC 60068-2-64			
Dimensions	L x W x H	130 (L) x 125 (W) x 50 (H) mm			

© JWIPC Inc. All Rights Reserved.

02

Product view



03

Ordering Information

Model	Module	CPU	RAM	NPU	TDP	AI Performance
EII-6101-A	Orin Nano 4G	6 cores	4G	/	25W	34 TOPS
EII-6101-B	Orin Nano 8G	6 cores	8G	/	25W	67 TOPS
EII-6101-C	Orin NX 8G	6 cores	8G	1x DLA v2	40W	117 TOPS
EII-6101-D	Orin NX 16G	8 cores	16G	2x DLA v2	40W	157 TOPS

04

Packing List

Accessory	Description
Power Adapter	Adapter, 120W, AC100 - 240V, 24V, M8 4-pin aviation connector

05

Optional Accessories

Accessory	Description
SSD128GB	SSD128GB,M.2_M-KEY,2280, NVMe
SSD256GB	SSD256GB,M.2_M-KEY,2280, NVMe
SSD512GB	SSD512GB,M.2_M-KEY,2280, NVMe
SSD1TB	SSD1TB,M.2_M-KEY,2280, NVMe
SSD2TB	SSD2TB,M.2_M-KEY,2280, NVMe
4G/5G Module	4G/5G Module with Antenna
Wi-Fi & Bluetooth Module	Wi-Fi & Bluetooth Module with Antenna

© JWIPC Inc. All Rights Reserved. All product specifications are subject to change without notice