NP-61x2-JH4

- High-performance CPU Platform
- Edge Gateway and IoT Control Platform

Features

- 2 x Intel GbE LAN controller
- 4 x USB3.0，1 x USB2.0 Type A on board for dongle
- 2 x RS232/RS485, 8 x RS485
- 1 x Remote switch
- 8 x isolation DI (NPN/PNP)，4 x Relay output
- Support both DVI-D and HDMI display port
- 1 x miniPCIE expansion slot, Support wifi,3G/4G modules
- DC12~24V Power supply with overcurrent, overvoltage and polarity inverse protection
- Support wall-mounted or DIN-Rail fixing style

Specifications

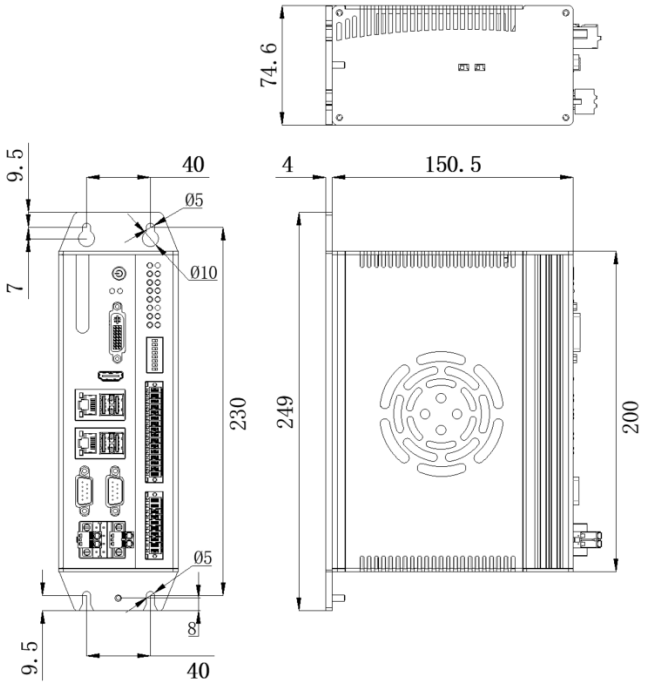
Model Name		NP-6122-JH4	NP-6132-JH4	NP-6142-JH4
System	CPU	Intel® Core™ 6th/7th/8th gen i7/i5/i3/Pentium/Celeron LGA1151 type CPU	Intel® Core™ 10th/11th gen i7/i5/i3 LGA1200 type CPU	Intel® Core™ 12th/13th/14th gen i7/i5/i3 LGA1700 type CPU
	TDP	65W		
	BIOS	AMI UEFI BIOS		
	Memory	2 x SO-DIMM DDR4-3200MT/s (max up to 32GB)		2 x SO-DIMM DDR5-4800MT/s, (max up to 64GB)
	Storage	1 x mSATA slot, SATA3.0		
		1 x M.2 slot, 2280 KEY-B, SATA3.0		
	USB	4 x USB3.0，1 x USB2.0 Type-A on the board for USB dongle		
	COM	2 x RS232/RS485，(COM1-2), maximum baud rate:115.2kbit/s		
		8 x RS485, (COM3-10), maximum baud rate:115.2kbit/s	8 x RS485, (COM3-6, maximum baud rate:115.2kbit/s; COM7-10 maximum baud rate:3Mbit/s)	
	Ethernet	2 x Intel i210-AT GbE LAN controller		
	Remote switch	1 x SW		
	DIO	8 x isolation DI, NPN/PNP		
		4 x RO, Relay normally open output, 30VDC(Imax: 1.0A)/60VDC(Imax: 0.3A)/125VAC(Imax: 0.5A)		
	DVI-D	Support up to 1920 x 1080 @60Hz		
	HDMI	Support up to 3840 x 2160 @30Hz		
	Expansion	1 x Full-size PCIe mini slot with SIM card holder		
	Watch Dog	1~255 levels programmable		
	TPM	fTPM		
OS	Microsoft Windows	Windows 10 , Windows11		
	Linux	Ubuntu，Debian，CentOS		
Power	Voltage Input	DC12~24V ±10%, overcurrent, overvoltage and polarity inverse protection		
	Power Consumption	Max.120W		
Chassis	Structure	Aluminum-magnesium alloy BOX with fan embedded to assist cooling, Wall-mounted or DIN-Rail fixing style.		
	Dimensions	(L)200mm x (W)150.5mm x (H)74.6mm		
	Net Weight	2.4Kg		
Environment	Work Temperature	-20°C ~ 60°C (-4°F~140°F) with air flow (SSD)		
	Storage Temperature	-40°C ~ 80°C (-40°F ~ 176°F)		
	Relative Humidity	95%@40°C (Non-condensing)		
	Operating Vibration	5~500Hz, 3Grms@with SSD and Wall-mounted, Follow IEC60068-2-64		
	Operating Shock	30G peak acceleration(11ms duration) with SSD and Wall-mounted, Follow IEC60068-2-27		
	EMC	CE EMC, Follow EN 55032, EN55035, EN IEC 61000-6-2, EN IEC 61000-6-4, FCC Class A		
	Safety	Follow EN IEC 62368-1		

All product specifications are subject to change without notice.
Ver: 1.1.0 Last updated: 14-Apr-2026

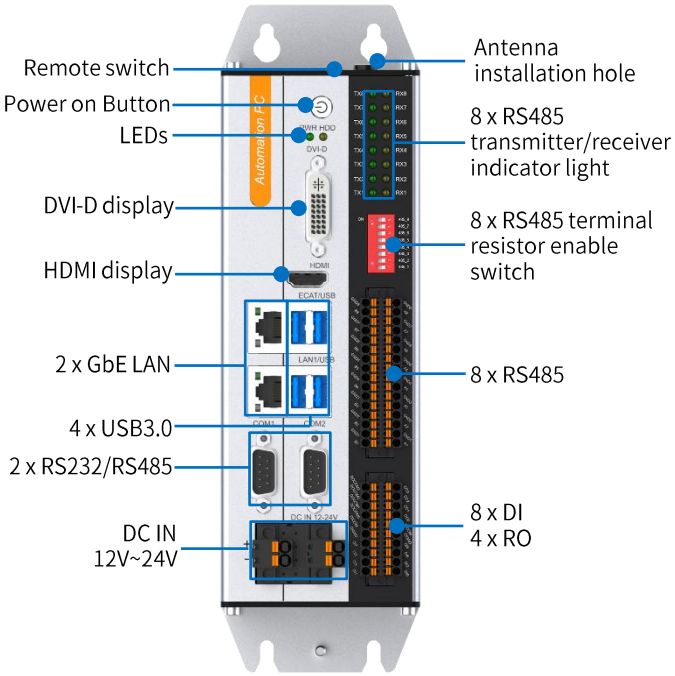
■ Appearance



■ Dimensions (Unit: mm)



■ Interfaces:



■ Ordering Information

Part No.	Product	Description
B73.61220.07.0001	NP-6122-JH4	CPU: NULL, RAM:NULL, mSATA: NULL, M.2: NULL, 2 x RS232/485(Selectable), 8 x RS485, 2 x LAN, 4 x USB3.0, 8 x DI, 4 x RO, HDMI/DVI-D display ports, 12-24V Power input
B73.61320.07.0001	NP-6132-JH4	CPU: NULL, RAM:NULL, mSATA: NULL, M.2: NULL, 2 x RS232/485(Selectable), 8 x RS485, 2 x LAN, 4 x USB3.0, 8 x DI, 4 x RO, HDMI/DVI-D display ports, 12-24V Power input
B73.61420.07.0001	NP-6142-JH4	CPU: NULL, RAM:NULL, mSATA: NULL, M.2: NULL, 2 x RS232/485(Selectable), 8 x RS485, 2 x LAN, 4 x USB3.0, 8 x DI, 4 x RO, HDMI/DVI-D display ports, 12-24V Power input

■ Options

Parts	NP-6122-JH4	NP-6132-JH4	NP-6142-JH4
CPU	i3-6100, i3-6100T, i3-7100, i3-7100T, i3-8100, i3-8100T, i3-9100, i3-9100T	i3-10100, i3-10100T	i3-12100, i3-12100T, i3-13100, i3-13100T,i3-14100, i3-14100T
	i5-6500, i5-6500T, i5-7500, i5-7500T, i5-8500, i5-8500T, i5-9500, i5-9500	i5-10500, i5-10500T, i5-11500, i5-11500T	i5-12500, i5-12500T, i5-13500, i5-13500T, i5-14500, I5-14500T
	i7-6700, i7-6700T, i7-7700, i7-7700T, i7-8700, i7-8700T,i7-9700, i7-9700T	i7-10700, i7-10700T, i7-11700, i7-11700T	i7-12700, i7-12700T, i7-13700, i7-13700T, i7-14700, i7-14700T
	i9-9900, i9-9900T	i9-10900, i9-10900T, i9-11900, i9-11900T	i9-12900, i9-12900T, i9-13900, i9-13900T, i9-14900, i9-14900T
	G3900,G4400	-	-
Memory	DDR4-3200MT/s: 4GB, 8GB, 16GB		DDR5 4800MT/s: 8GB, 16GB,32GB
mSATA SSD	64GB, 128GB, 256GB, 512GB, 1TB		
M.2 SSD	128GB, 256GB, 512GB, 1TB, 2TB		
Wifi Set	mini PCIE: WIFI Set (AX210/7260 series) ,Cylindrical antenna		
3G/4G Module	mini PCIE: EC20, EG25, EC25		
Mount Option	DIN-Rail		

■ Parts information

Name	Part No.	Specification
2pin power supply terminal	JF7.000037.00.D03	5.08mm 1*2pin, wiring terminal
20pin IO-terminal	JF7.000019.00.D03	3.5mm 2*10pin, wiring terminal
32pin IO-terminal	JF7.000022.00.D03	3.5mm 2*16pin, wiring terminal
DIN-Rail	C78.570001.00.NDJ	Din-Rail bracket，DIN Rail that complies with IEC 60715（width:35mm，thickness:1mm）
Wall-mounted	L21.000225.10.NKC	Hanging board
WIFI Set Intel AX210	F06.000014.00.NDJ	miniPCIE,Wifi6, External 2.4G/5G rubber antenna (single piece)
WIFI Set Intel 7260AN	F06.000087.00.NDJ	miniPCIE,Wifi5 , External 2.4G/5G rubber antenna (single piece)
WIFI Set Intel 7260AN	F06.000089.00.NDJ	miniPCIE,Wifi5, External 2.4GHz/5GHz magnetic mount antenna with 3m cable
4G Module EC20	F06.000031.00.NDJ	miniPCIE, China 7-mode universal network (Full Netcom) with external rubber antenna (single piece)
4G Module EC20	F06.000034.00.NDJ	miniPCIE, China 7-mode universal network (Full Netcom) with external 3m magnetic mount antenna

Note: If some optional parts are offered with the system, additional system certificates may be required in certain regions/countries. Please contact NODKA for certificate compliance.