

NP-6133 Ultra

- Machine Vision, Automated Production Controller Platform
- Machine Motion Control, Robot Control Platform

■ Features

- Support Intel® Core™ Ultra 2 Series CPU
- 4 x Intel GbE LAN controller
- 4 x USB3.0, 1 x USB2.0 Type A on board for dongle
- 1 x RS232/485
- Support both VGA and HDMI display port
- 2 x miniPCIe expansion slot, Support 3G/4G/WIFI modules
- DC12~24V Power supply with overcurrent, overvoltage and polarity inverse protection



■ Specifications

Model Name		NP-6133-225H	NP-6133-255H
System	CPU	Intel® Core™ Ultra 225H CPU, 14 cores/14 threads, 1.3~4.9GHz, 18MB cache	Intel® Core™ Ultra 255H CPU, 16 cores/16 threads, 1.5~5.1GHz, 24MB cache
	TDP	28W	
	BIOS	AMI UEFI BIOS	
	GPU	Intel® Arc™ 130T GPU	Intel® Arc™ 140T GPU
	NPU	Intel® AI Boost	
	Peak TOPS	83 (GPU63+NPU13)	96 (GPU74+NPU13)
	Memory	2 x SO-DIMM DDR5-5600MT/s (up to 96GB)	
	Storage	1 x mSATA, SATA3.0	
	USB	4 x USB3.0 1 x USB2.0, Type-A on the board for USB dongle	
	COM	1 x RS232/RS485(COM1), Maximum baud rate:115.2kbit	
	Ethernet	4 x Intel i210-ATGbE LAN controller	
	Remote	1 x SW	
	VGA	Support up to 1920 x 1080 @60Hz	
	HDMI	Support up to 3840 x 2160 @60Hz	
	Expansion	2 x Full-size PCIe Mini slot with SIM card holder, expansion WIFI/3G/4G/CAN modules	
	Watch Dog	1~255 levels programmable	
TPM	dTPM:SLB9672XU2.0		
OS	Microsoft Windows	Windows 10, Windows11	
	Linux	Ubuntu, Debian	
Power	Voltage Input	DC12-24V ±10%, overcurrent, overvoltage and polarity inverse protection	
	Power Consumption	Max. 90W	
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)57.6mm	
	Net Weight	1.9Kg	
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) with air flow (SSD)	
	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 IEC/EN 61000-6-2, IEC/EN 61000-6-4, FCC Class A	
	Safety	Follow IEC/EN 62368-1	

NP-6133-16I160

- Machine Vision, Automated Production Controller Platform
- Machine Motion Control, Robot Control Platform

■ Features

- 16 x DI (NPN/PNP)
- 16 x DO (NPN or PNP, select the mode by the switch)



■ Extended Specifications

Model Name	16I160	
System	DI	16 x DI, NPN/PNP
	DO	16 x DO, NPN or PNP (select the mode by the switch), I _{max} :0.5A
Chassis	Net Weight	2.4Kg

■ Dimensions (Unit: mm)

Dimensions: 74.6 (top), 9.5 (top-left), 40 (top-left), R2.5 (top-left), 4 (top), 70.5 (top), 35 (top), 15 (top), 230 (height), Ø10 (hole), 249 (height), 150.5 (width), 200 (height), R2.5 (bottom).

■ Interfaces

Interfaces: DO mode selection, 16 x DO, 16 x DI, 1 x Extended LAN.

■ Ordering Information

Part No.	Product	Description
B73.61330.0Q.0002	NP-6133-16I160-225H	CPU: Ultra 225H, RAM: NULL, mSATA: NULL, 1 x RS232/485, 4 x LAN, 4 x USB3.0, HDMI/VGA display, 16 x DI, 16 x DO, DC12-24V DC IN
B73.61330.0Q.0003	NP-6133-16I160-255H	CPU: Ultra 255H, RAM: NULL, mSATA: NULL, 1 x RS232/485, 4 x LAN, 4 x USB3.0, HDMI/VGA display, 16 x DI, 16 x DO, DC12-24V DC IN

■ Options

Parts	NP-6133-16I160
LAN	mini PCIE: Intel i210-AT LAN controller

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Note: The 16I160 model cannot support the expansion of 2.5-inch solid-state drives.