

24+
Years in Business

30+
Countries Served

5000+
Happy Customers



**One-stop
IPC, Panel PC and HMI
Design and Manufacturing**



Our Facilities and Capabilities

- In house SMTs, precision machinery and system assembly parts
- 480+ employees and near \$100M annual revenue
- Fast turnaround for small batch customization HMIs
- Local service and support for the US and European markets
- Strong R&D team for both hardware design and software supports
- Readily available inventory for small qty standard product orders
- Short OEM/ODm design cycles: 30~40 days for a new design

NODKA International
NO.5, Shenwang Rd, Minhang Dist, Shanghai, China
Email: vikki@nodka.com
Mobile: +86 136 7156 0856

NODKA USA
21015 Commerce Pointe Drive Walnut, CA 91789, USA
Email: bin.lin@nodka.us
Tel: 909-594-7600

NODKA Europe
Luchthavenweg 81-038, 5657EA, Eindhoven, NL
Email: wuyong@nodka.com
Mobile: +31(0) 6 2029 2256

NODKA Taiwan
6F-E5 No.58, Jhouzih St., Neihu District, Taipei City 114, Taiwan
Email: jack.xu@nodka.com
Tel: +886 0939072869

- COMLAC INSIDE
- INDUSTRIAL OPERATION PANEL
- INDUSTRIAL MONITOR & PANEL PC
- EMBEDDED INDUSTRIAL COMPUTER
- CONTROL CABINET AUTOMATION PC



One-stop IPC, Panel PC and HMI Design and Manufacturing

Nodka is a top-tier industrial computer manufacturer specializing in the design and manufacture of panel PCs, HMI, industrial PCs and automation computers tailored for the industrial automation, robotics, machine vision, smart manufacturing, self-service, edge IoT and many other industrial computer markets. Nodka was established in Shanghai in 2001 and has since grown to include offices in the Netherlands, the United States and Taiwan, serving products and services to over 5,000 customers in 30+ countries. We offer OEM/ODM services, customizable and compatible solutions that ensure seamless integration with existing and future technologies, backed by our global support.

24+

Years in Business

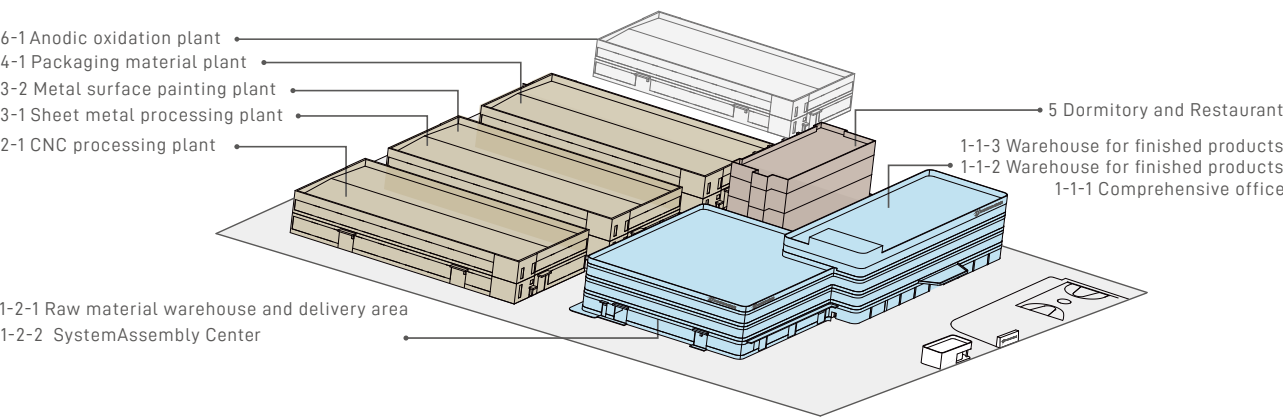
50000+

m²
Factory Area

5000+

Happy Customers

Guangde manufacturing center layout



SMT Center

Pick-and-Place Machine, DIP, PCBA conformal coating, AOI, one stop service for SMT manufacturing.

System Assembly Center

Scalable, flexible and one-stop production model to meet mass production, small batch orders requirement.

Anodizing plant

With capabilities in different surface treatment technology, quick response for customer-specific requests.

Metal Surface treatment

Spray coating, Printing, Anodizing, Laser carving technology.

CNC processing plant

24/7 production mode, equipped with multi-axis and efficient machining capabilities.

Metal shell processing

50 units equipment involve Laser cutting, Stamping, Bending, 3/4 axis Machine

Industrial Computer

IPC-615H5 & IPC-615G3 4U & Tower IPC



Download
datasheet



- CPU Option
 - Intel® 6/7/8/9th Gen. Celeron®/Pentium®/Core™-i series LGA1151 processor
 - Intel® 10/11th Gen. Celeron®/Pentium®/Core™-i series LGA1200 processor
 - Intel® 12/13/14th Gen. Celeron®/Pentium®/Core™-i series LGA1700 processor
- Dimensions(L×W×H)
 - IPC-615H5: 482mm×450mm×177mm
 - IPC-615G3: 370mm×326mm×180mm
- Support RAID 0,1,5,10
- Support GPU card for AI solution(Q470/Q670 chipset)
- OS : Windows7, Windows10, Windows11 and Linux.

Fanless Industrial Computer



More Detail

eBOX-3670-P/E

- Intel® the 6/7/8/10/11th Gen. CPU
- 2GLAN/7USB/6COM/HDMI/VGA
- 1×PCIe X16+2×PCIe X1 or PCIe X16+2×PCI
- 2×miniPCIe expansion slot for 3G/4G modules
- 1×2.5 "SATA,1×M.2 disk interface
- DC12-24V±10% input
- 20 °C to 60 °C work temperature

eBOX-3000

- Intel® Core™ 6/7/8th Gen. LGA1151
- COMING SOON 12/13/14th Gen. LGA1700
- 2GLAN/8USB/4RS232/HDMI/VGA/DVI
- 1×PCIe X16 slot or 1×32bits PCI
- 2×miniPCIe expansion slot for 3G/4G modules
- 1×2.5 "SATA,1×Mini SATA
- DC12-24V±10% input
- 20 °C to 60 °C work temperature

eBOX-3625

- Intel® Core™ 6/7/8/10/11th Gen.
- 3GLAN/4USB/2COM/DVI
- 1×PCIe X16 slot + 1×PCI slot
- 1×miniPCIe expansion slot for 3G/4G modules
- 1×eLINK LAN port for data transmission
- 1×2.5 "SATA,1×Mini SATA
- DC12-24V±10% input
- 20 °C to 60 °C work temperature

eBOX-3622-H

- Intel® Core™ 4th i7/i5/i3/Pentium®/ Celeron®
- COMING SOON 6/7/8th Gen. LGA1151
- 2GLAN/6USB/6COM/DVI/VGA
- 1×PCIe X16+2×PCIe X1 or PCIe X16+2×PCI
- 1×miniPCIe expansion slot for 3G/4G modules
- 1×2.5 "SATA,1×Mini SATA
- DC12V input
- 20 °C to 60 °C work temperature

eBOX-3250

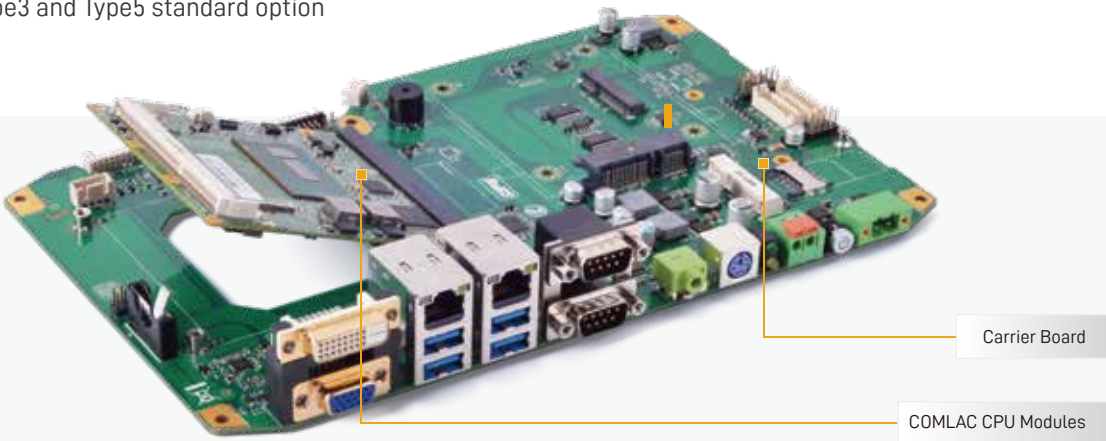
- Intel® the 6/7/8/10/11th Gen. CPU
- 3LAN/6USB/4COM/HDMI
- Optional 2×CAN buses or 2×RS232/485
- 8 × DI , 8 × DO
- 1×mSATA,1×M.2 NVME SSD (Specifications 2280)
- DC12-24V±10% input
- 20 °C to 60 °C work temperature

eBOX-3240

- Intel® Celeron® J6412
- 2LAN/6USB/6COM/HDMI/VGA/DP
- 1×MiniPCIe expansion slot for 3G/4G modules
- 1×M.2 expansion slot for 5G module
- 1×2.5 SATA,1×M.2 Hard Disk ports: SATA hard disks
- DC12V input
- 20 °C to 60 °C work temperature

COMLAC CPU Modules

-  X86 modular bus standard
-  MXM 3.0 high-speed connector
-  Type3 and Type5 standard option
-  COMLAC development support
-  Customized carrier board service



Type3

Dimensions: (L)95mm×(W)82mm

NK-L318-N305/N97

- TDP 15W
- Intel® SoC integrated
- AMI 256Mb UEFI BIOS
- DDR4-3200MHz
- 1×eDP
- 2×DDI Tri-display

NK-L317-J6412

- TDP 10W
- Intel® SoC integrated
- AMI 128Mb UEFI BIOS
- DDR4-3200MHz
- 1×eDP
- 2×DDI Tri-display

NK-L316-4205U/8145U/8265U

- TDP 15W
- Intel® SoC integrated
- AMI 128Mb UEFI BIOS
- DDR4-2400MHz
- 1×eDP
- 2×DDI Tri-display

NK-L315-3855U

- TDP 15W
- Intel® SoC integrated
- AMI 128Mb UEFI BIOS
- DDR3L-1600MHz
- 1×eDP
- 2×DDI Tri-display

NK-L312-J1900

- TDP 10W
- Intel® SoC integrated
- AMI 64Mb UEFI BIOS
- DDR3L-1333MHz
- 1×VGA FPC Connector
- 2×DDI dual display

Type5

Dimensions: (L)138mm×(W)100mm

NK-L510-H110

- TDP 65W
- Intel® SoC integrated
- AMI 128Mb UEFI BIOS
- 2×DDR4-1866/2133/2400/2666MHz
- 1×eDP
- 2×DDI Tri-display

NK-L520-H510

- TDP 65W
- Intel® SoC integrated
- AMI 256Mb UEFI BIOS
- 2×DDR4-3200MHz
- 1×eDP
- 2×DDI Tri-display

NK-L530-H610

- TDP 65W
- Intel® SoC integrated
- AMI 256Mb UEFI BIOS
- 2×DDR5-4800MHz
- 1×eDP
- 2×DDI Tri-display

Industrial Motherboard

3.5" embedded Industrial Motherboard

NK-6183

Alder Lake-N i3-N305/N97

- TDP 15W
- Intel® SoC integrated
- AMI 256Mb UEFI BIOS
- DDR5-4800MHz
- 2LAN/6USB/2COM/4TTL
- HDMI/VGA/LVDS/eDP
- 1×M.2, 1×Mini-PCIe

NK-6170

Intel® Celeron® J6412

- TDP 10W
- Intel® SoC integrated
- AMI 256Mb UEFI BIOS
- DDR4-3200MHz
- 2LAN/6USB/2COM/4TTL
- HDMI/DP/LVDS/eDP
- 2×M.2, 1×Mini-PCIe

NK-6171

Intel® Celeron® J6412

- TDP 10W
- Intel® SoC integrated
- AMI 256Mb UEFI BIOS
- DDR4-3200MHz
- 2LAN/6USB/2COM/4TTL
- HDMI/DP/LVDS/eDP
- 2×M.2, 1×Mini-PCIe

NK-6172

Intel® Celeron® J6412

- TDP 10W
- Intel® SoC integrated
- AMI 256Mb UEFI BIOS
- DDR4-3200MHz
- 4LAN/6USB/2COM/4TTL
- HDMI/DP
- 2×M.2, 1×Mini-PCIe

NK-6120

Intel® Celeron® J1900

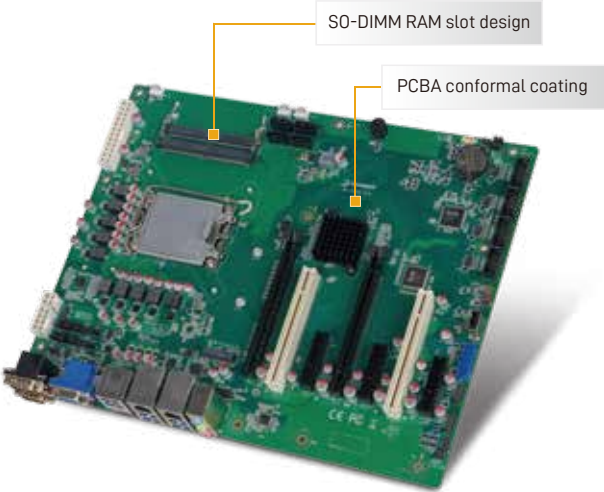
- TDP 10W
- Intel® SoC integrated
- AMI 64Mb UEFI BIOS
- DDR3L-1333MHz
- 2LAN/6USB/2COM/4TTL
- HDMI/VGA/LVDS/eDP
- 1×M.2, 1×Mini-PCIe

NK-6121

Intel® Celeron® J1900

- TDP 10W
- Intel® SoC integrated
- AMI 64Mb UEFI BIOS
- DDR3L-1333MHz
- 2LAN/6USB/2COM/4TTL
- HDMI/VGA/LVDS/eDP
- 1×M.2, 1×Mini-PCIe

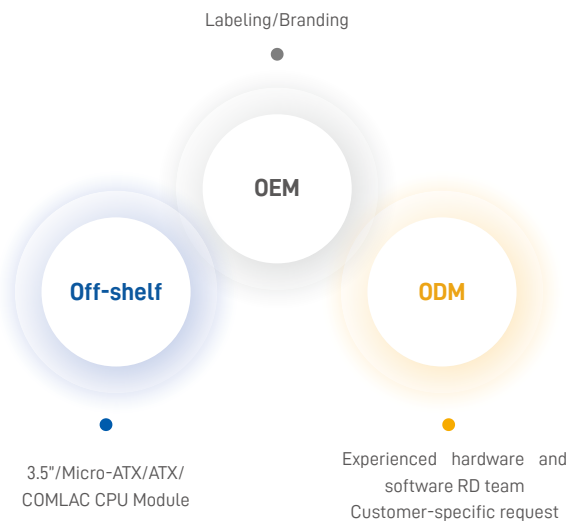
ATX Industrial Motherboard



CPU Option

- Intel® 6/7/8/9th Gen. Celeron®/Pentium®/Core™-i series LGA1151 processor
- Intel® 10/11th Gen. Celeron®/Pentium®/Core™-i series LGA1200 processor
- Intel® 12/13/14th Gen. Celeron®/Pentium®/Core™-i series LGA1700 processor

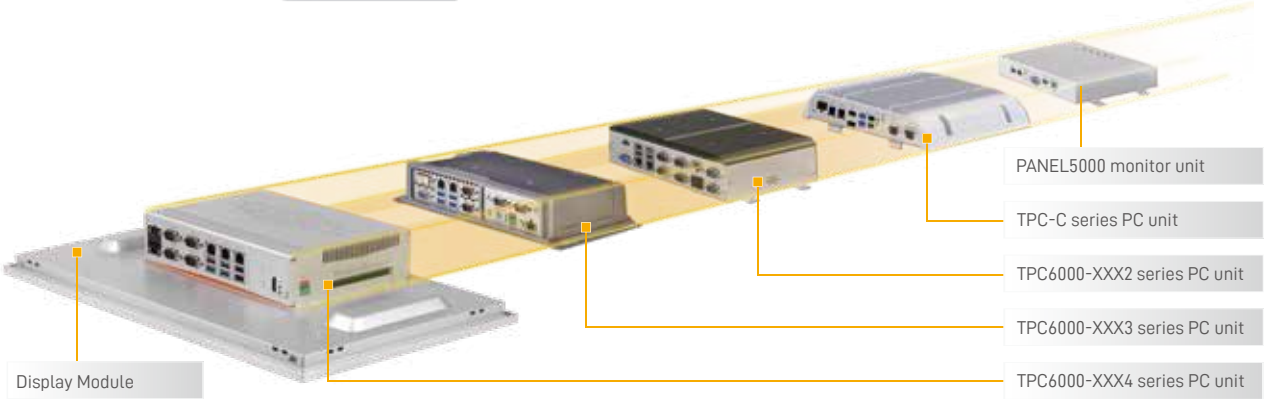
Advantages in SMT manufacturing,
Quick response, Small-batch but
diversified customization.

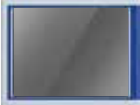


COMLAC design & Modular Panel PC/Monitor



- Particular Color and Print Logo
- Option Resistive/Capacitive touch
- Front panel IP65



Resistive Touchscreen	Screen Size	XXX3	XXX4
 A Series Display Module	10.4"	TPC6000-A103	TPC6000-A104
	12.1"	TPC6000-A123	TPC6000-A124
	15"	TPC6000-A153	TPC6000-A154
	17"	TPC6000-A173	TPC6000-A174
	19"	TPC6000-A193	TPC6000-A194
	21.5"	TPC6000-A2153	TPC6000-A2154

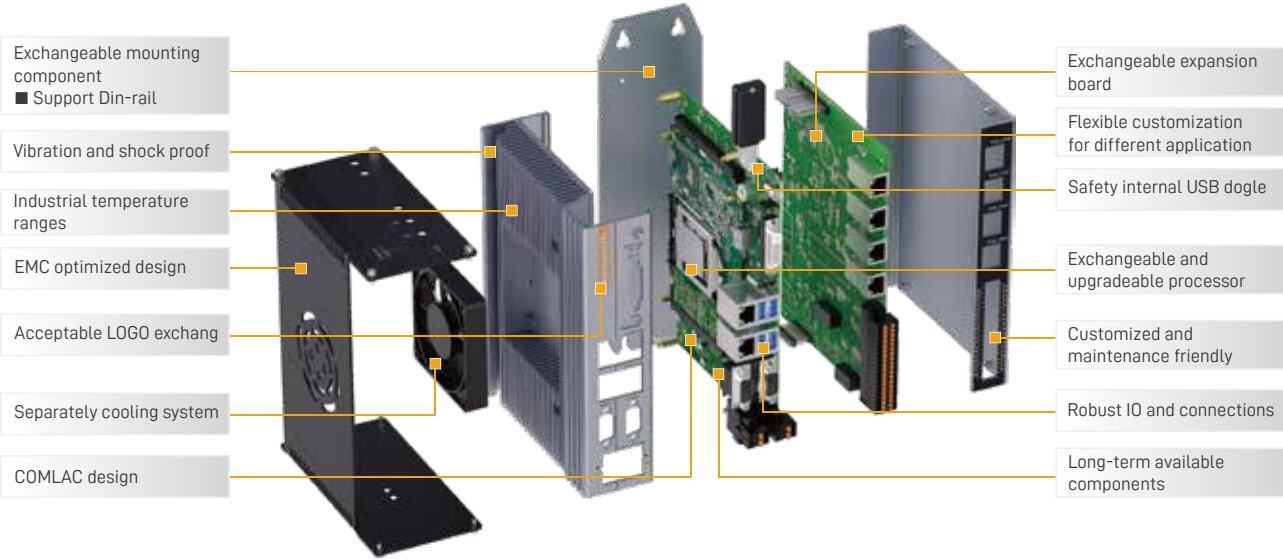
Capacitive Touchscreen	Screen Size	XXX3	XXX4	TPC-C
 C Series Display Module	10.4"	TPC6000-C1043	TPC6000-C104	TPC-C104
	12.1"	TPC6000-C123	TPC6000-C124	TPC6-C121
	12.1" (wide screen)	TPC6000-C123W	TPC6000-C124W	TPC-C121W
	15"	TPC6000-C153	TPC6000-C154	TPC-C150
	15.6"	TPC6000-C1563	TPC6000-C1564	TPC-C156
	17"	TPC6000-C193	TPC6000-C194	TPC-C170
	18.5"	TPC6000-C1853	TPC6000-C1854	TPC-C185
	19"	TPC6000-C193	TPC6000-C194	TPC-C190
	21.5"	TPC6000-C2153	TPC6000-C2154	TPC-C215

Model No.		XXX3
Processor	CPU	Intel® Core i3-N305/N-series N97/ Celeron® J1900 / J6412
	Main Frequency	N305: Octa core 3.8GHz / N97: Quad core 3.6GHz / J1900: Quad core 2.0GHz / J6412: Quad core 2.0GHz
	L3 Cache	N305/N97: 6MB/J1900: 2MB/J6412: 1.5MB/7200U: 3MB
	Chipset	Integrated PCH-LP
	Memory	1×DDR4-3200MHz, max 16GB / 1×DDR3L-1600MHz, max 8GB / 1×DDR4-2400MHz, max 16GB
I/O	Storage interface	1×2.5" SATA bay + 1×mSATA
	Ethernet	2×Intel® 1000Mbps RJ-45 with surge protection, lightning protection design and 15KV ESD protection
	Audio	Optional
	USB	4×USB3.0 / 2.0 / 1.1
	COM	2×RS232 / RS485 with surge protection, RS485 support automatic flow control
Expansion slot	1×Mini-PCIe slot, extensible 3G, WIFI wireless card; 1×EasyBUS slot (can add additional 2×COM, 8DIO or 2×USB)	
	I/O port	
OS	DVI-D / VGA / 2×GLAN / 4×USB / 2×COM / 1×PS2 / Line-out / Mic-in	
	OS supported	
Power	Windows 7, Windows 7 Embedded, Windows 8, Windows 10, Linux, VxWorks, QNX	
	DC input	
Environmental	DC 12~24V±10% , support reverse polarity protection, overvoltage protection, overcurrent protection	
	Work Temperature	
	-0 ~ 50°C (32~122°F)	
	Storage Temperature	
	-20 ~ 60°C (-4~140°F)	
	Relative Humidity	
	5 ~ 95% RH@40°C (Non-condensation)	
Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64	
	Shock	
	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27	
	EMC	
	CE/FCC Class B	
Water-proof	Front panel IP65	

Model No.		XXX4
Processor	CPU	Intel® Core™ 6/7/8/10/11th i7/i5/i3 , Pentium® and Celeron® CPU. Max.65W TDP
	BIOS	AMI UEFI 64Mbit
	Chipset	H110/H510
	Memory	DDR4-2400 MHz, 2×SO-DIMM Slot, Up to 32GB
	Storage interface	1×M.2 (M Key 2280 PCIe Gen3×4 Lane) + 1×mSATA
I/O	Ethernet	3×Intel 10/100/1000Mbps controller (option 5×LAN ports)
	USB	4×USB3.0 / 2×USB2.0
	COM	4×RS232 / RS485 Interface with surge protection, RS485 support automatic flow control
	Expansion slot	1×Mini-PCIe slot, extensible 3G, WIFI wireless card
	I/O port	8DI + 8DO Wet contact input (24V) , OC gate output (24V 300mA)
OS	8DI + 8DO Wet contact input (24V) , OC gate output (24V 300mA)	
	OS supported	
Power	Windows 7, Windows 7 Embedded, Windows 8, Windows 10, Linux, VxWorks, QNX	
	DC input	
	DC 12~24V±10% , Support reverse connection protection, over voltage protection, over current	
	Work Temperature	
	-0 ~ 50°C (32~122°F)	
	Storage Temperature	
	-20 ~ 60°C (-4~140°F)	
Environmental	Relative Humidity	
	5 ~ 95% RH@40°C (Non-condensation)	
	Vibration	
	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64	
	Shock	
EMC	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27	
	CE/FCC Class B	
Water-proof	Front panel IP65	

Model No.		TPC-C
Processor	CPU	Intel® N-series N97/ Intel® Celeron® J6412
	Main Frequency	N97: Quad core 3.6GHz / J6412: Quad Core 2GHz
	L3 Cache	N97: 6MB/J6412: 1.5MB
	Chipset	Integrated PCH-LP
	Memory	N97: 1×DDR4-3200MHz, max 16GB / J6412: DDR4-3200MHz, 1×SO-DIMM Slot, Up to 32GB
I/O	Storage interface	1×M.2-2242 M Key SSD slot(SATA3.0)
	Ethernet	2×Realtek 1000Mbps RJ-45 Ethernet interface
	Audio	-
	USB	J1900: 1×USB3.0, 1×USB2.0 / J6412: 2×USB3.0, 2×USB2.0
	COM	2×RS-232 (COM1,RS-485 optional)
Expansion slot	1×Mini-PCIe slot, extensible 4G,WIFI	
	I/O port	
OS	J1900: 2×GLAN /2×USB /2×COM /DC IN /HDMI /VGA / J6412: 2×GLAN /4×USB /2×COM /DC IN /HDMI /DP	
	OS supported	
Power	Windows 7, Windows 8, Windows 10, Linux	
	DC input	
	DC 12-24V	
	Work Temperature	
	0 ~ 50°C (32~122°F)	
	Storage Temperature	
	-20 ~ 60°C (-4~140°F)	
Environmental	Relative Humidity	
	10~95% RH@40°C, Non condensing	
	Vibration	
	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64	
	Shock	
EMC	Operating 10G peak acceleration (11ms duration), follow IEC 60068-2-27	
	CE/FCC Class B	
Water-proof	Front panel IP65	

Flexible Design Automation PC



More than 18 Add-on Modules are available

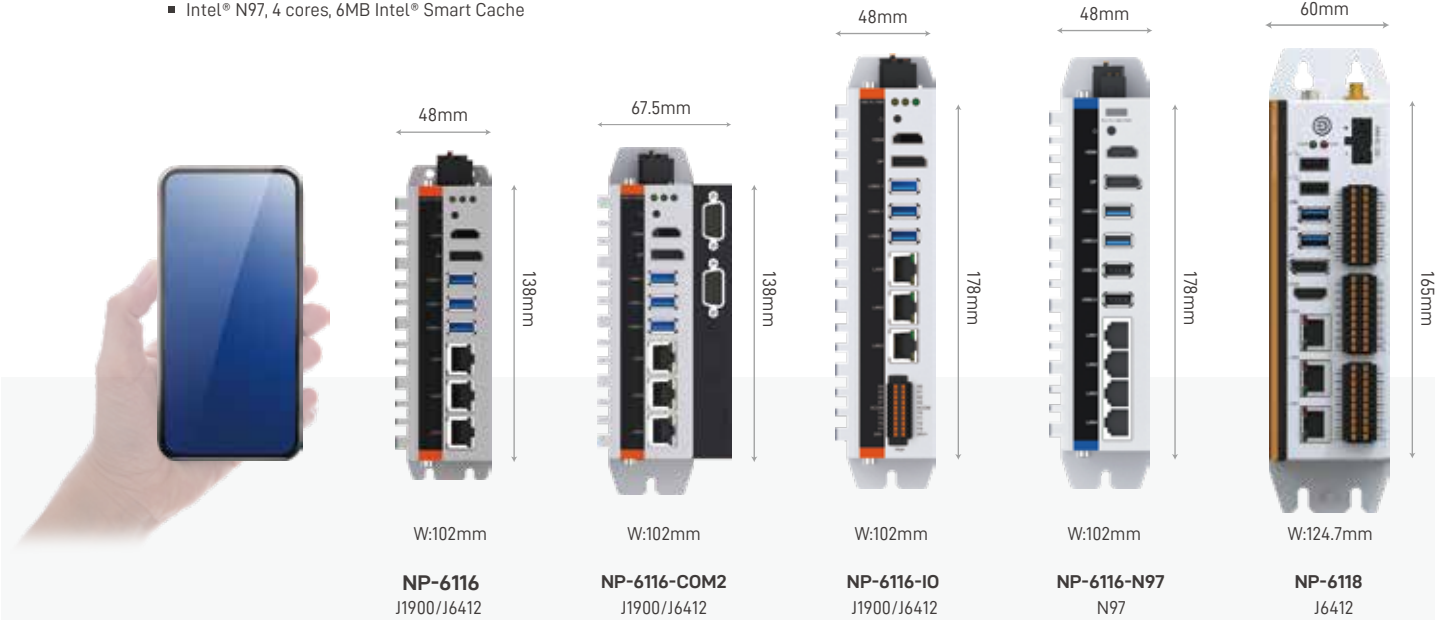
Model No.	-H1	-H1B	-H1BP	-JH2	-JH2B	-JH3	-JH4	-JH5	-8PoE	-L4	-MVS	-16I16O	-CAN2	-L2
Adaptive Basic PC	NP-61X2 NP-61X5	NP-61X2 NP-61X5	NP-61X2 NP-61X5	NP-6111 NP-61X2 NP-61X5	NP-6111 NP-61X2 NP-61X5	NP-6111 NP-61X2 NP-61X5	NP-6111 NP-6122 NP-6125	NP-6111 NP-61X2 NP-61X5	NP-61X2 NP-61X5	NP-6113 NP-6123 NP-6133	NP-6113 NP-6123 NP-6133	NP-6113 NP-6123 NP-6133	NP-6111 NP-61X2 NP-61X5	NP-6111 NP-61X2 NP-6123 NP-6133 NP-61X5
Extension Interface														
LAN	-	-	-	-	-	-	-	1	-	4	-	-	-	2
PoE	4	4	4	2	2	-	-	-	8	-	-	-	-	-
USB	-	-	-	-	-	4	-	-	-	-	-	-	-	-
COM	-	-	-	-	-	2	8	8	-	1	1	-	-	-
DI	8	16	16	8	16	8	8	16	-	8	8	16	-	-
DO	8	16	16	8	16	8	4	16	-	8	8	16	-	-
Light Control	4	-	-	4	-	-	-	-	-	-	4	-	-	-
CAN	-	-	-	-	-	1 or 2	-	-	-	-	-	-	2	-

Ultra-Compact IPC

Fanless Automation PC

CPU Option

- Intel® Celeron® J6412, 2.0~2.6GHz, 4 cores/4 threads, 1.5MB L2 cache
- Intel® Celeron® J1900, 2.0~2.41GHz, 4 cores/4 threads, 2MB L2 cache
- Intel® N97, 4 cores, 6MB Intel® Smart Cache



10 Basic PC options

Dimensions(L×W×H): 200mm×154.5mm×57.6mm



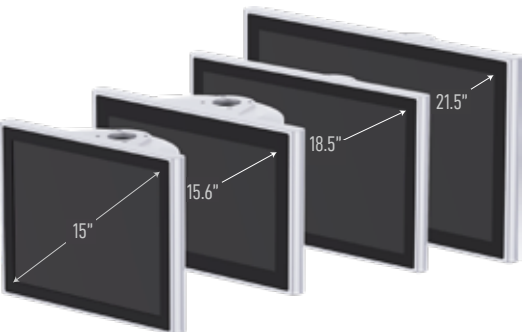
CPU	Fanless	with Fan
Alder Lake-N N97/i3-N305	NP-6111 NP-6113	-
Intel® Celeron® J6412	NP-6111 NP-6113	-
Intel® Core™ 6/7/8/9th Gen. i7/i5/i3/Pentium®/ Celeron® LGA1151	-	NP-6122 NP-6123 NP-6125
Intel® Core™ 10/11th Gen. i7/i5/i3 LGA1200	-	NP-6132 NP-6133 NP-6135
Intel® Core™ 12/13th Gen. i7/i5/i3 LGA1700	-	NP-6140 COMING SOON

ICP/IDP Series - Operation Panel PC and Monitor

-  Intel® Core™ 6/7/8/10/11th Gen. i3 i5 i7 / Celeron® J6412 CPU
-  Full IP65 Compliant
-  Integrated UPS inside
-  Multi and Glove Touch



Available in sizes from 15" to 21.5"



A wide range of connectors are available
Compatible with Rittal CP40



System and Display unit option



Customer-specific requests for button unit
Modular extensions for your device



Operation Panel PC

Model No.		ICP69XXX-C-H3	ICP69XXX-C-H51	ICP69XXX-C-H52
Processor	CPU	Intel® Celeron® J6412 Processor, 1.5M Cache, 2.0 GHz up to 2.60 GHz, TDP15W	Intel® Core™ 6/7/8th i5/i3 and Pentium® / Celeron® LGA 1151 type CPU. Max.35W TDP	Intel® Core™ 10/11th i5/i3 CPU type LGA 1200 Max.35W TDP
	Memory	2×DDR4 SO-DIMM, Max support 16GB	2×DDR4 SO-DIMM, Max support 32GB	2×DDR4 SO-DIMM, Max support 32GB
	Storage interface	1×2.5"HDD/SSD + 1×mSATA		
I/O	Ethernet	2/4×Intel 1000Mbps RJ-45 with surge protection, lightning protection design and 15KV ESD protection		
	Audio	-		
	USB	4×USB3.0 / 2.0 / 1.0		
	COM	2×RS232/485(optional), 2×3-pins Phoenix Connector		
	Display	HDMI1.2		
OS	OS supported	Windows 7, Windows 10 IoT, Ubuntu, CentOS		
Mechanical	Installation	Swing ARM mounting (Support NODKA 4460 square tube and Rittal CP40)		
	Buttons	Default: 1×Emergency button, 1×selection button, 1×red push button, 1×green push button, 1×Key switch		
Power	DC input	DC 12~24V±10% , support reverse polarity protection, overvoltage protection, overcurrent protection		
		1×2-pins Phoenix Connector for DC power(internal); 1×Power button with light at the back of housing		
Environmental	Work Temperature	-0 ~ 50°C (32~122°F)		
	Storage Temperature	-20 ~ 60°C (-4~140°F)		
	Relative Humidity	5 ~ 95% RH@40°C (Non-condensation)		
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64		
	Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27		
	EMC	CE/FCC Class B		
	Water-proof	Full IP65 compliant		

Operation Panel Monitor

Model No.		IDP59XXX-X-HU	IDP59XXX-X-HA
System	Display signal Input	HDMI + VGA	ND LINK (RJ45)
	Input	1×USB2.0(typeB) for touch communication	-
	Output	2 ×internal USB2.0(typeA), 1×2in1 USB 2.0 at the back of housing	2×internal USB2.0(typeA), 1×2in1 USB 2.0 at the back of housing
OS	OS supported	Windows 7, Windows 10 IoT, Ubuntu, CentOS	
Mechanical	Installation	Swing ARM mounting (Support NODKA 4460 square tube and Rittal CP40)	
	Buttons	Default: 1×Emergency button, 1×selection button, 1×red push button, 1×green push button, 1×Key switch	
Power	DC input	DC 12~24V±10% , support reverse polarity protection, overvoltage protection, overcurrent protection	
		1×2-pins Phoenix Connector for DC power(internal); 1×Power button with light at the back of housing	
Environmental	Work Temperature	-0 ~ 50°C (32~122°F)	
	Storage Temperature	-20 ~ 60°C (-4~140°F)	
	Relative Humidity	5 ~ 95% RH@40°C (Non-condensation)	
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64	
	Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27	
	EMC	CE/FCC Class B	
	Water-proof	Full IP65 compliant	

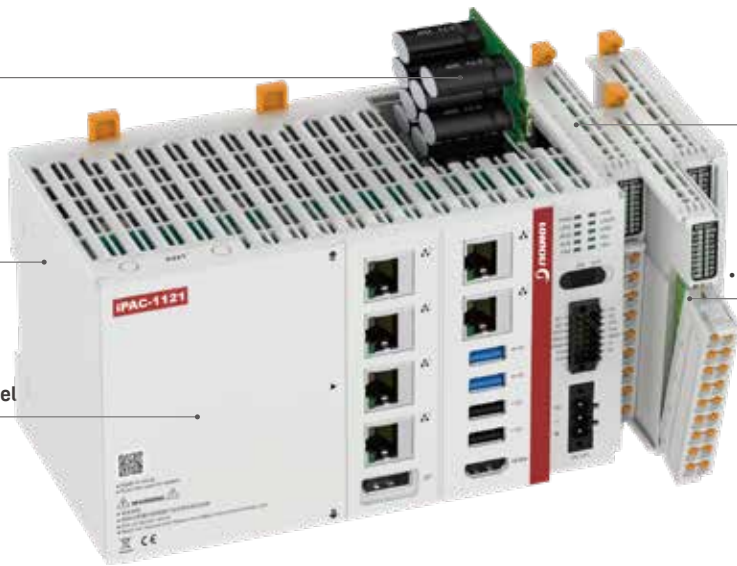
iPAC System

iPAC PC unit

Super Cap. Module

DIN-Rail installation
• Conforms to DIN EN 60715

Customized product info panel



Flexible IO modules
• Extended by the EBUS
• Many kinds of IO modules

Ebus Coupler insight
• Easy to extend the IO modules
• Easy to adapt to application software

iPAC IO Modules

Chassis
• High quality
• Easy to buy
• Long life cycle

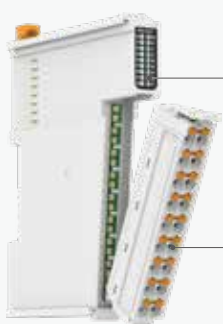
Status LEDs
• Very convenient for the diagnosis and system turning

Screw free terminal block
• Greatly improve wiring efficiency
• Make the wiring more stable



Function label
• Distinguish the IO functions by the label color

Flexible terminal block
• Improve the efficiency of system maintenance

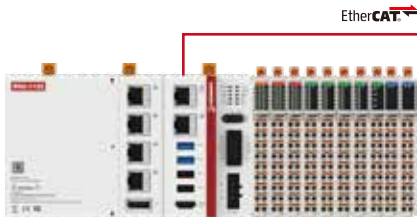


Platform for Automation Controller



Industrial Monitor

HDMI/USB



iPAC Controller System

EtherCAT

EtherCAT



iPAC I/O System

Controller Modules

AC-1113

- Intel® Celeron®, Atom® series CPU
- 4xLAN
- (1 for EtherCAT)
- UPS



AC-1122

- Intel® Core™ Gen. 6/7/8th i3/i5/i7
- desktop CPU
- 6xLAN
- UPS



AC-1181

- Quad-core ARM Cortex A53, 1.4GHz
- 3xLAN(1 for EtherCAT)
- Linux-RT
- UPS
- Flexible scalability



AK-1100

- EtherCAT I/O Coupler



I/O Modules

Digital Input

AL-1219

- 16 ch
- 3ms filter
- PNP/NPN



Digital Output

AL-2019

- 16 ch
- 500mA
- NPN



Analog Input

AL-3238

- 8 ch
- -10V..+10V
- 16bits
- Differential



Temp. Input

AL-3608

- 8 ch
- K/J/T type
- 2 wire



Analog Output

AL-4228

- 8 ch
- -10V..+10V
- 16bits
- Single ended



Encoder Input

AL-5002

- 2ch
- A/B/Z
- Differential



AL-1229

- 16 ch
- 10us filter
- PNP/NPN



AL-2319

- 16 ch
- 500mA
- PNP



AL-3438

- 8 ch
- 0..20mA
- 16bits
- Differential



AL-3614

- 4 ch
- PT100/PT1000



AL-4428

- 8ch
- 0..20mA 16bits
- Single ended



AL-3538

- 8 ch
- 4..20mA
- 16bits
- Differential

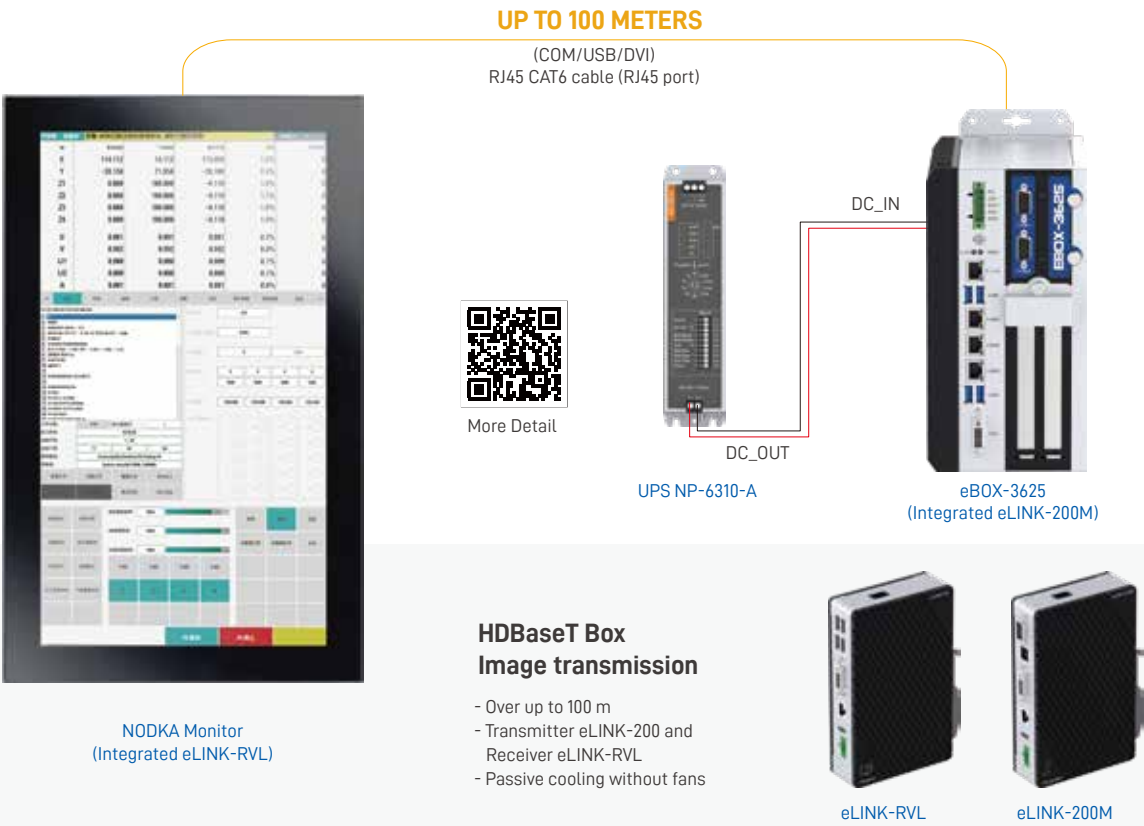


AL-4528

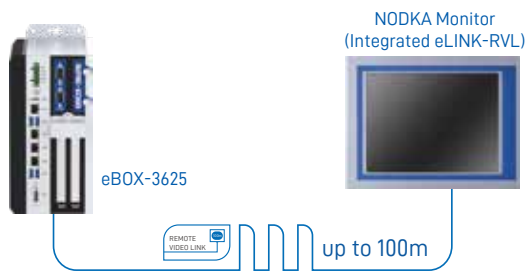
- 8ch
- 4..20mA
- 16bits
- Single ended



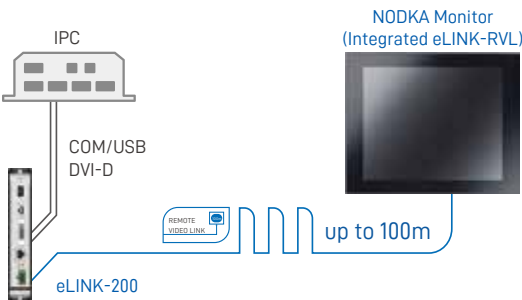
Long-distance Transmission Solution



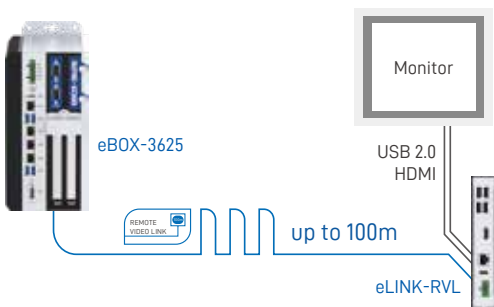
eBOX-3625 + NODKA Monitor



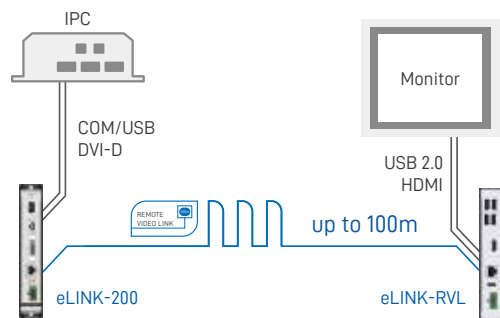
IPC + eLINK-200 + NODKA Monitor



eBOX-3625 + eLINK-RVL + Monitor



IPC + eLINK-200 + eLINK-RVL + Monitor



Comprehensive Machine Vision Solution

Introduction

I/O on the PC is normally used to data acquisition and actuator controlling or communicating with the other devices. So the I/O systems are essential for enhancing performance and enabling real-time processing. This is crucial for applications like quality inspection, where delays can result in undetected defects.

NP-61x5-H1BP series ultra compact PC is equipped with a desktop high-performance processor and rich interfaces that can meet the need of various industries. In additionally, 16 channels of HS isolated DI and 16 channels of HS isolated DO are extended by the PCIE and FPGA, customized firmware of the FPGA makes it more flexible to meet various requirement. Two channels of the encoder and two channels of the PWM output can be configured by the DI and DO. The encoder acquisition can support position comparison output. The NP-61x5-H1BP series IPC can be applied in various industries such as machine vision, PLC, robotic vision guidance, dispensing, logistics, etc.

Key Features

- 2×Intel i210 GbE LAN controllers
- 4×Intel i210 GbE LAN PoE controllers
- 16×isolated DI(Support 2 x Encoder A/B/Z differential Interface)
- 16×isolated DO(Support 2 x PWM output interface)

PANEL5000-CXX3 series industrial monitor

Key Features

- Size from 10.1-inch to 23.8-inch
- Option capacitive touch and resistive touch
- Support VGA and HDMI signal input
- DC12~24V power input
- Labeling and branding customization is acceptable

Demo

The encoder collects the position of the item on the conveyor belt and outputs DO through position comparison at a precisely set position, triggering the camera to take a photo and transmit to the PC.

