NOVAKON

Enrich Your Experience

Simple and Elegant

www.novakon.com.tw

Company Profile

NOVAKON
Enrich Your Experience

Enrichment & Experience

With over two decades of research and development, production and sales in the HMI industry, NOVAKON marks the birth of a premiere series of HMI experiences; the first of its class.

Arts & Technology

Driven by the importance of user experience, NOVAKON reached far and wide to bring together both cutting edge technology and inspiring design concepts. With its intuitive interface, NOVAKON aims to connect human to machine, art to technology.

Intuition & Feel

The easy-to-use interface enhances user experience by providing straightforward and intuitive ways of operating the machine.

Vision & World

NOVAKON products are the most attractive in the market with a textured look pushing the horizon for a new generation of HMIs. We focus on developing user experience to ultimately set a new standard for HMIs.

Quality & Value

In addition to the powerful features and high performance, there maintains an elegant aspect to the user interface. We guarantee reliability and quality of the product, and we are committed to continuing to create more values for user experience.

Product Catalog

Product Overview P03

HMI

N Series P05

N04	4.3"	480x272	P06
N07	7"	800x480	P07
N10	10.2"	800x480	P08

AW Series P09

A12W	12.1"	1280x800	P10
A15W	15.4"	1280x800	P11

Panel PC

PP-AW Series (16:10 Wide Display) P12

PP-A12W	12.1"	1280x800 , ATOM 1.86G	P13
PP-A15W	15.4"	1280x800 , ATOM 1.86G	P14

PP-CW Series (16:10 Wide Display) P15

PP-C12W	12.1"	1280x800 , Core i5 / i7	P16
PP-C15W	15.4"	1280x800 , Core i5 / i7	P17

PP-A Series (4:3 Standard Display) P18

PP-A08	8"	800x600 , ATOM 1.6G	P19
PP-A12	12.1"	800x600 , ATOM 1.6G	P20
PP-A15	15"	1024x768 , ATOM 1.6G	P21

Supported PLC / Controller List P22

Cable / Accessories P22

Product Overview

HMI

N Series

ARM POWERED

4.3"HMI
- N04-P (2xCOM)
- N04-N (2xCOM, 1xEthernet)

- CPU Type: ARM 9 (400 MHz)
- Resolution: 480x272, 64K color
- Brightness: 330 cd/m²

P.06

7"HMI
- N07-P (2xCOM)
- N07-N (3xCOM, 1xEthernet)

- CPU Type: ARM 9 (400 MHz)
- Resolution: 800x480, 64K color
- Brightness: 300 cd/m²

P.07

10.2"HMI
- N10-P (2xCOM)
- N10-N (3xCOM, 1xEthernet)

- CPU Type: ARM 9 (400 MHz)
- Resolution: 800x480, 64K color
- Brightness: 350 cd/m²

P.08

AW Series

intel Atom inside

12.1"HMI
- A12W (3xCOM, 2xEthernet)

- CPU Type: Intel® Atom™ D2550 1.86 GHz
- Resolution: 1280x800, 16.7M color
- Brightness: 400 cd/m²

P.10

15.4"HMI
- A15W (3xCOM, 2xEthernet)

- CPU Type: Intel® Atom™ D2550 1.86 GHz
- Resolution: 1280x800, 16.7M color
- Brightness: 400 cd/m²

P.11

Industrial PC

PP-AW Series

16:10 Wide Display

intel Atom inside

12.1" Panel PC
- PP-A12W (3xCOM, 2xEthernet)

- CPU Type: Intel® Atom™ D2550 1.86 GHz
- Resolution: 1280x800, 16.7M color
- Brightness: 400 cd/m²

P.13

15.4" Panel PC
- PP-A15W (3xCOM, 2xEthernet)

- CPU Type: Intel® Atom™ D2550 1.86 GHz
- Resolution: 1280x800, 16.7M color
- Brightness: 400 cd/m²

P.14

PP-A Series

4:3 Standard Display

intel Atom inside

8" Panel PC
- PP-A08 (2xCOM, 2xEthernet)

- CPU Type: Intel® Atom™ N2600 1.6 GHz
- Resolution: 800x600, 16.7M color
- Brightness: 350 cd/m²

P.19

PP-CW Series

16:10 Wide Display

intel inside CORE i5 CORE i7

12.1" Panel PC
- PP-C12W (3xCOM, 2xEthernet)

- CPU Type: Intel® Core i U-Series
- Resolution: 1280x800, 16.7M color
- Brightness: 400 cd/m²

P.16

15.4" Panel PC
- PP-C15W (3xCOM, 2xEthernet)

- CPU Type: Intel® Core i U-Series
- Resolution: 1280x800, 16.7M color
- Brightness: 400 cd/m²

P.17

intel Atom inside

12.1" Panel PC
- PP-A12 (2xCOM, 2xEthernet)

- CPU Type: Intel® Atom™ N2600 1.6 GHz
- Resolution: 800x600, 16.7M color
- Brightness: 330 cd/m²

P.20

15" Panel PC
- PP-A15 (2xCOM, 2xEthernet)

- CPU Type: Intel® Atom™ N2600 1.6 GHz
- Resolution: 1024x768, 16.7M color
- Brightness: 350 cd/m²

P.21

HMI

N Series

	Model	N04-P	N04-N	N07-P	N07-N	N10-P	N10-N
Display	Type	4.3" TFT		7" TFT		10.2" TFT	
	Resolution	480x272		800x480		800x480	
	Color Depth	64K					
	Backlight Type	LED					
	Brightness	330 cd/m²		300 cd/m²		350 cd/m²	
	Backlight Lifetime	20,000 hr		20,000 hr		20,000 hr	
	Contrast Ratio	500:1		500:1		300:1	
	View Angle	140/120 (H°/V°)		140/120 (H°/V°)		130/110 (H°/V°)	
	Dimming	20 levels					
System Resources	CPU	ARM 9 (400 MHz)					
	Chipset	—					
	RAM/Non-volatile	128M/8K					
	Storage	128M NAND Flash					
	RTC	Yes					
Interface	Touch Screen	4 Wire Resistive Analog					
	Front	1 x Power Indicator		1 x Power Indicator, 1 x Mechanic Switch			
	COM1	1 x RS232, 1 x RS422/485		RS232/422/485		RS232/422/485	
	COM2	—		RS232/422/485		RS232/422/485	
	COM3	—		—	RS422/485	RS232/422/485	
	Ethernet	—	1 x 10/100Mbit	—	1 x 10/100Mbit	—	1 x 10/100Mbit
	USB	1 x Device, 1 x Host					
	Memory Card	—		—	SD Card	—	SD Card
	Audio	—					
	Video Output	—					
	Expansion	—					
Ratings	Power Input	19.2~28.8V, Isolated Power					
	Power Consumption	6W		8W		10W	
	Weight	0.25 Kg		0.68 Kg		1.1 Kg	
	Battery	CR 2032 Replaceable					
Environment	Operating Temp.	0~45°C		0~50°C			
	Storage Temp.	-20~60°C					
	Moisture	10% ~ 90% RH (non-condensing) @40°C					
Mechanical	Construction	Plastic		Painted Plastic front bezel & Chassis			
	IP Rating	IP65 (Front)					
	Mounting	Panel Mount		Panel Mount , VESA 75 x 75		Panel Mount , VESA 75 x 75	
	Dimension(mm)	127.7 x 89.7 x 36.7		199.8 x 147.8 x 39.8		279.5 x 195.5 x 39.5	
	Cut-out(mm)	119.3 x 81.3		185.2 x 133.2		260.2 x 177.2	
Approvals	CE/FCC	CE/FCC (EN 61000-6-4, EN 61000-6-2)					
	UL	N/A					
System Support		HMI - embedded Linux Open Platform - Embedded Linux, WinCE					

N04
HMI

Features

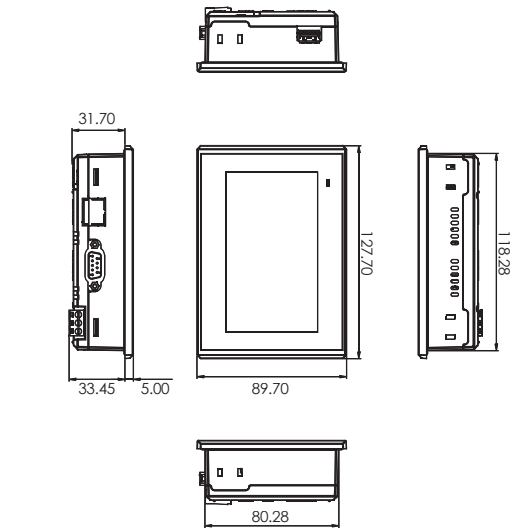
- ARM 9 (400 MHz)
- 4.3" TFT, Resolution 480x272
- Brightness 330 cd/m²
- Backlight Lifetime 20,000 hr
- 19.2 ~ 28.8V, Isolated Power
- Plastic chassis, fan-less design
- Panel Mount, IP65 front bezel
- Suitable for industrial applications

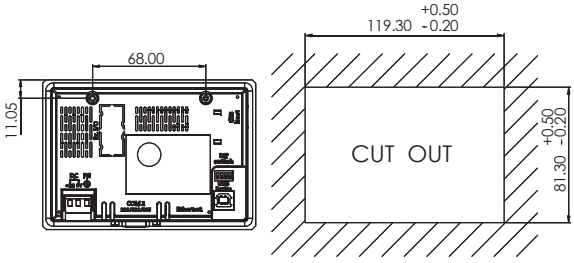
Specifications

CPU Type	ARM 9 (400 MHz)
Memory	128 MB, NAND Flash 128MB
Graphics	Build-in
I/O Interface	1 x USB 1.1 host Type A 1 x USB 2.0 device Type B 1 x RS232, 1 x RS422/485, COM1 1 x 10/100 Mbit (N04-N only)
Display	4.3" TFT-LCD, Resolution 480 x 272 Brightness 330 (cd/m²) View angle 140/120 (H°/V°) Backlight lifetime 20,000 hr Contrast ratio 500:1
Touch Screen	4 Wire Resistive Analog
Power	19.2~28.8V Isolated Power, 6W
Construction	Plastic
Weight	0.25 Kg
Mounting	Panel Mount
Dimension	127.7 (W) x 89.7 (H) x 36.7 (D) mm
Operating Temp.	0~ 45°C
Storage Temp.	-20~ 60°C
Moisture	10% ~ 90% RH (non-condensing) @ 40°C
Certification	CE/FCC (EN 61000-6-4, EN 61000-6-2)

Ordering Information

N04-P	4.3" HMI Standard
N04-N	4.3" HMI Ethernet (Standard+1x10/100 Mbit)
N04L-N	4.3" Open Linux(Ethernet+Linux OS)
N04W-N	4.3" WinCE (Ethernet+WinCE OS)





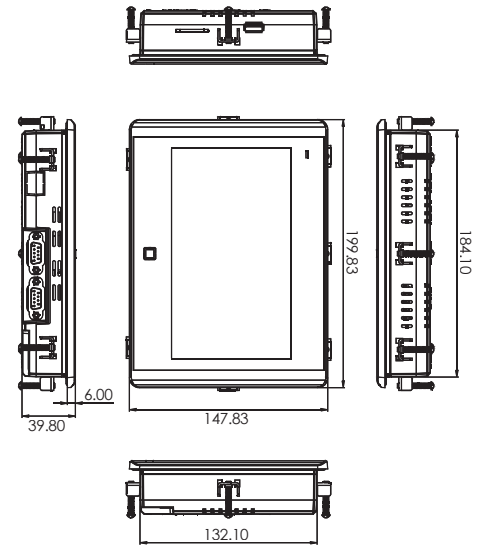
N07
HMI

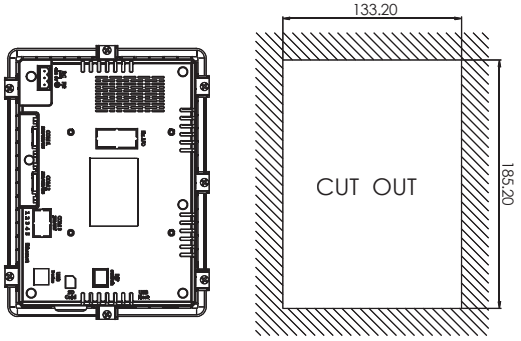
Features

- ARM 9 (400 MHz)
- 7" TFT, Resolution 800 x 480
- Brightness 300 cd/m²
- Backlight Lifetime 20,000 hr
- 19.2 ~ 28.8V, Isolated Power
- Painted plastic chassis, fan-less design
- Panel Mount, IP65 front bezel
- Suitable for industrial applictions

Ordering Information

N07-P	7" HMI Standard
N07-N	7" HMI Ethernet (Standard+1x10/100 Mbit)
N07L-N	7" Open Linux(Ethernet+Linux OS)
N07W-N	7" WinCE (Ethernet+WinCE OS)





Specifications

CPU Type	ARM 9 (400 MHz)
Memory	128MB, NAND Flash 128MB
Graphics	Build-in
I/O Interface	1 x USB 1.1 host Type A 1 x USB 2.0 device Type B RS232/422/485, COM1 RS232/422/485, COM2 RS422/485, COM3 (N07-N only) 1 x 10/100 Mbit (N07-N only)
Display	7" TFT-LCD, Resolution 800 x 480 Brightness 300 (cd/m²) View angle 140/120 (H°/V°) Backlight lifetime 20,000 hr Contrast ratio 500:1
Touch Screen	4 Wire Resistive Analog
Power	19.2~28.8V Isolated Power, 8W
Construction	Painted Plastic front bezel & Chassis
Weight	0.68 Kg
Mounting	Panel Mount，VESA 75 x 75
Dimension	199.8(W) x 147.8(H) x 39.8(D) mm
Operating Temp.	0~ 50°C
Storage Temp.	-20 ~ 60°C
Moisture	10% ~ 90% RH (non-condensing) @ 40°C
Certification	CE/FCC (EN 61000-6-4, EN 61000-6-2)

N10
HMI

Features

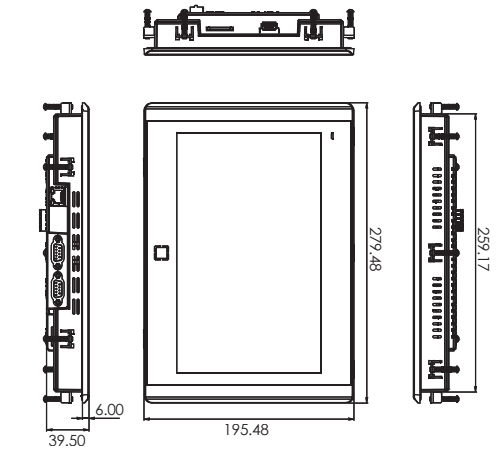
- ARM 9 (400 MHz)
- 10.2" TFT, Resolution 800 x 480
- Brightness 350 cd/m²
- Backlight Lifetime 20,000 hr
- 19.2 ~ 28.8V, Isolated Power
- Painted plastic chassis, fan-less design
- Panel Mount, IP65 front bezel
- Suitable for industrial applictions

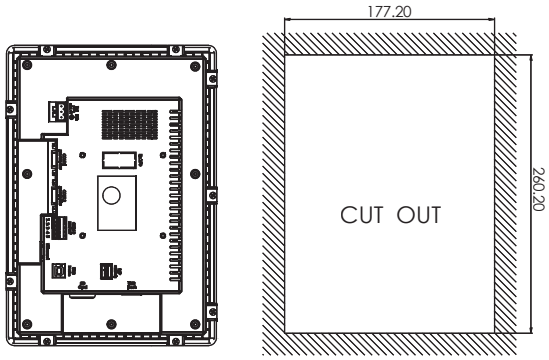
Specifications

CPU Type	ARM 9 (400 MHz)
Memory	128MB, NAND Flash 128MB
Graphics	Build-in
I/O Interface	1 x USB 1.1 host Type A 1 x USB 2.0 device Type B RS232/422/485, COM1 RS232/422/485, COM2 RS422/485, COM3 1 x 10/100 Mbit (N07-N only)
Display	10.2" TFT-LCD, Resolution 800 x 480 Brightness 350 (cd/m²) View angle 130/110 (H°/V°) Backlight lifetime 20,000 hr Contrast ratio 300:1
Touch Screen	4 Wire Resistive Analog
Power	19.2~28.8V Isolated Power, 10W
Construction	Painted Plastic front bezel & Chassis
Weight	1.1 Kg
Mounting	Panel Mount，VESA 75 x 75
Dimension	279.5(W) x 195.5(H) x 39.5(D) mm
Operating Temp.	0~ 50°C
Storage Temp.	-20~ 60°C
Moisture	10% ~ 90% RH (non-condensing) @ 40°C
Certification	CE/FCC (EN 61000-6-4, EN 61000-6-2)

Ordering Information

N10-P	10.2" HMI Standard
N10-N	10.2" HMI Ethernet (Standard+1x10/100 Mbit)
N10L-N	10.2" Open Linux(Ethernet+Linux OS)
N10W-N	10.2" WinCE (Ethernet+WinCE OS)





HMI

AW Series

	Model	A12W	A15W	A21W
Display	Type	12.1" TFT	15.4" TFT	21.5" TFT
	Resolution	1280x800	1280x800	1920x1080
	Color Depth	16.7M		
	Backlight Type	LED		
	Brightness	400 cd/m²	400 cd/m²	350 cd/m²
	Backlight Lifetime	50,000 hr	50,000 hr	50,000 hr
	Contrast Ratio	1000:1	700:1	5000:1
	View Angle	176/176 (H°/V°)	160/140 (H°/V°)	
	Dimming	20 levels		
System Resources	CPU	Intel® Atom™ D2550 1.86 GHz		
	Chipset	Intel® NM10		
	RAM/Non-volatile	2G		
	Storage	16G SSD		
	RTC	Yes		
Interface	Touch Screen	5 Wire Resistive Analog		
	Front	1 x Power Indicator, 1 x Mechanic Switch		
	COM1	RS232		
	COM2	RS232/422/485		
	COM3	RS232/422/485		
	Ethernet	2 x GbE RJ-45		
	USB	2 x USB 2.0		
	Memory Card	—		
	Audio	—		
	Video Output	1 x DVI-I		
	Expansion	2x Mini PCIe (1x Half-Size, 1x Full-Size)		
Ratings	Power Input	12~24V		
	Power Consumption	35W	38W	TBD
	Weight	4.3 Kg	5.8 Kg	TBD
	Battery	CR 2032 Replaceable		
Environment	Operating Temp.	0~50°C		
	Storage Temp.	-20~80°C		
	Moisture	10% ~ 90% RH (non-condensing) @40°C		
Mechanical	Construction	Aluminum front bezel and Painted Steel chassis		
	IP Rating	IP65 (Front)		
	Mounting	Panel mount, VESA 100x100		
	Dimension(mm)	319.0 x 225.0 x 56.8	397.0 x 275.0 x 56.8	TBD
	Cut-out(mm)	305.7 x 211.7 mm	383.7 x 261.7	TBD
Approvals	CE/FCC	CE/FCC(EN 61000-6-4, EN 61000-6-2, EN 55022, EN 55024)		
	UL	N/A		
System Support		HMI - Embedded Linux		

A12W
HMI

Features

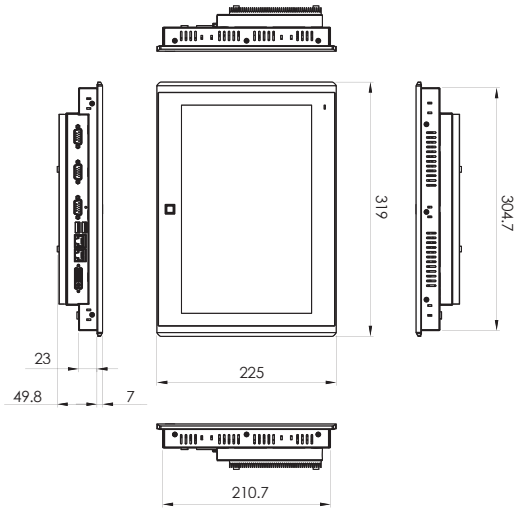
- Intel® Atom™ D2550 1.86 GHz
- 12.1" TFT, Resolution 1280 x 800
- Brightness 400 cd/m²
- Backlight Lifetime 50,000 hr
- 12~24 VDC Input
- Aluminum front bezel and Painted Steel chassis
- fan-less design
- Panel Mount, IP65 front bezel
- Suitable for industrial applications

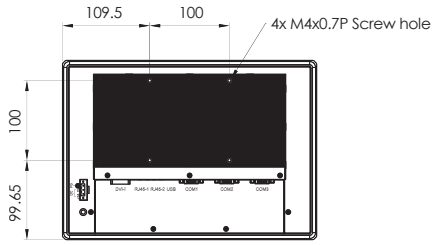
Specifications

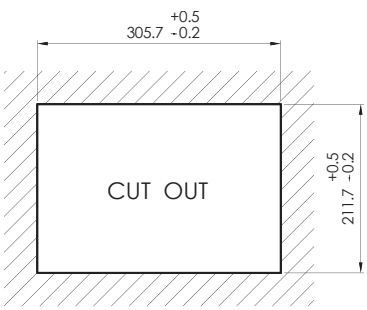
CPU Type	Intel® Atom™ D2550 1.86 GHz
Chipset	Intel® NM10
Memory	2G
Graphics	Intel® NM10
I/O Interface	2 x USB 2.0 RS232, COM1 RS232/422/485, COM2 RS232/422/485, COM3 2 x GbE RJ-45, 1 x DVI-I
Expansion	2x Mini PCIe (1x Half-Size, 1x Full-Size)
Display	12.1" TFT-LCD, Resolution 1280 x 800 Brightness 400 (cd/m²) View angle 176/176 (H°/V°) Backlight lifetime 50,000 hr Contrast ratio 1000:1
Touch Screen	5 Wire Resistive Analoge
Power	12~24 VDC, 35W
Construction	Aluminum front bezel and Painted Steel chassis
Weight	4.3 Kg
Mounting	Panel mount, VESA 100 x 100
Dimension	319.0 (W) mm x 225.0 (H) mm x 56.8 (D)
Operating Temp.	0°C~ 50°C
Storage Temp.	-20° ~ 80°C
Moisture	10% ~ 90% RH (non-condensing) @40°C
Certification	CE/FCC(EN 61000-6-4, EN 61000-6-2, EN 55022, EN 55024)

Ordering Information

A12W	12.1" HMI Ethernet







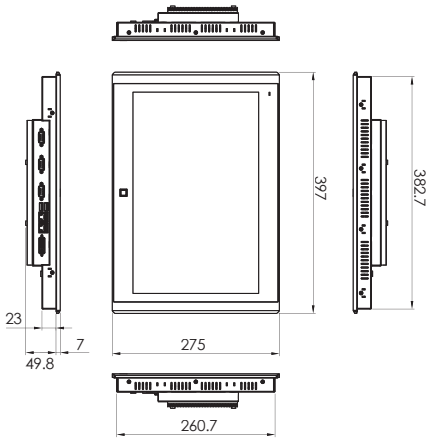
A15W
HMI

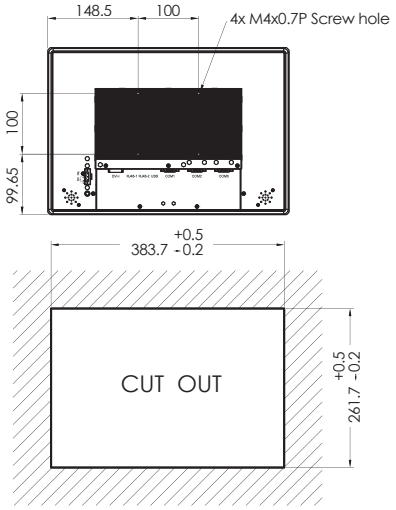
Features

- Intel® Atom™ D2550 1.86 GHz
- 15.4" TFT, Resolution 1280 x 800
- Brightness 400 cd/m²
- Backlight Lifetime 50,000 hr
- 12~24 VDC Input
- Aluminum front bezel and Painted Steel chassis
- fan-less design
- Panel Mount, IP65 front bezel
- Suitable for industrial applications

Ordering Information

A15W	15.4" HMI Ethernet





Specifications

CPU Type	Intel® Atom™ D2550 1.86 GHz
Chipset	Intel® NM10
Memory	2G
Graphics	Intel® NM10
I/O Interface	2 x USB 2.0 RS232, COM1 RS232/422/485, COM2, COM3 2 x GbE RJ-45, 1 x DVI-I
Expansion	2x Mini PCIe (1x Half-Size, 1x Full-Size)
Display	15.4" TFT-LCD, Resolution 1280 x 800 Brightness 400 (cd/m²) View angle 160/140 (H°/V°) Backlight lifetime 50,000 hr Contrast ratio 700:1
Touch Screen	5 Wire Resistive Analoge
Power	12~24 VDC, 38W
Construction	Aluminum front bezel and Painted Steel chassis
Weight	5.8 Kg
Mounting	Panel mount, VESA 100 x 100
Dimension	397.0(W) x 275.0(H) x 56.8(D) mm
Operating Temp.	0°C~ 50°C
Storage Temp.	-20° ~ 80°C
Moisture	10% ~ 90% RH (non-condensing) @40°C
Certification	CE/FCC(EN 61000-6-4, EN 61000-6-2, EN 55022, EN 55024)

Industrial PC

PP-AW Series

	Model	PP-A12W	PP-A15W	PP-A21W
Display	Type	12.1" TFT	15.4" TFT	21.5" TFT
	Resolution	1280x800	1280x800	1920x1080
	Color Depth	16.7M		
	Backlight Type	LED		
	Brightness	400 cd/m²	400 cd/m²	400 cd/m²
	Backlight Lifetime	50,000 hr	50,000 hr	50,000 hr
	Contrast Ratio	1000:1	700:1	5000:1
	View Angle	176/176 (H°/V°)	160/140 (H°/V°)	
	Dimming	7 levels		
System Resources	CPU	Intel® Atom™ D2550 1.86 GHz Dual Core		
	Chipset	Intel® NM10		
	RAM/Non-volatile	2G or 4G		
	Storage	SSD, C-FAST, or HDD		
	RTC	Yes		
Interface	Touch Screen	5 Wire Resistive Analog, (Capacitive Touch - Option)		
	Front	1 x Power Indicator, 1 x Mechanic Switch		
	COM1	RS232		
	COM2	RS232/422/485		
	COM3	RS232/422/485		
	Ethernet	2 x GbE RJ-45		
	USB	2 x USB 2.0, 4 x Internal USB 2.0		
	Memory Card	—		
	Audio		2 x Speaker + Amplifier (Option)	
	Video Output	1 x DVI-I		
	Expansion	2 x Mini PCI-E (1 x Half-size, 1 x Full-size)		
Ratings	Power Input	12~24V		
	Power Consumption	35W	38W	TBD
	Weight	4.3 Kg	5.8 Kg	TBD
	Battery	CR 2032 Replaceable		
Environment	Operating Temp.	0~50°C		
	Storage Temp.	-20~80°C		
	Moisture	10% ~ 90% RH (non-condensing) @40°C		
Mechanical	Construction	Aluminum front bezel and Painted Steel chassis		
	IP Rating	IP65 (Front)		
	Mounting	Panel mount , VESA 100x100		
	Dimension(mm)	319.0 x 225.0 x 56.8	397.0 x 275.0 x 56.8	TBD
	Cut-out(mm)	305.7 x 211.7	383.7 x 261.7	TBD
Approvals	CE/FCC	CE/FCC (EN 61000-6-4, EN 61000-6-2, EN 55022, EN 55024)		
	UL	N/A		
System Support		Windows embedded standard 7, Windows 7 Pro for embedded, Windows XP embedded, Windows XP Pro		

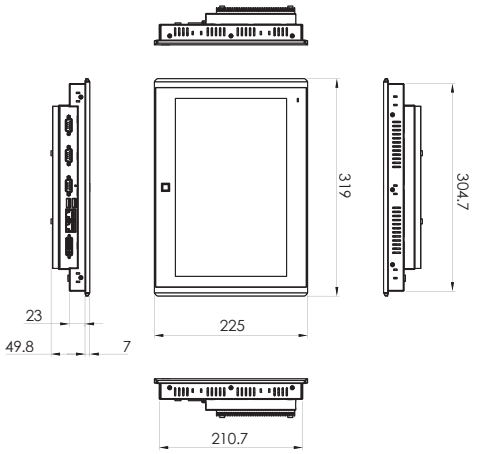
PP-A12W
Panel PC

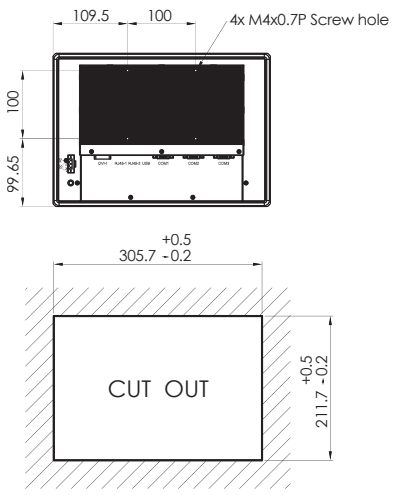
Features

- Intel® Atom™ D2550 1.86 GHz Dual Core
- 12.1" TFT, Resolution 1280 x 800
- Brightness 400 cd/m²
- Backlight Lifetime 50,000 hr
- 12~24 VDC Input
- Aluminum front bezel and painted steel chassis, fan-less design
- Panel Mount, VESA 100 x 100, IP65 front bezel
- Suitable for industrial applications

Ordering Information

PP-A12W	12.1" TFT, Resolution 1280 x 800, fan-less design, Intel® Atom™ D2550 1.86 GHz Dual Core, 2G/4G memory, resistive touch screen, 12~24 VDC input, Aluminum front bezel and Painted Steel chassis.





Specifications

CPU Type	Intel® Atom™ D2550 1.86 GHz Dual Core
Chipset	Intel® NM10
Memory	2G/4G
Graphics	Intel® NM10
I/O Interface	2 x USB 2.0, 4 x Internal USB 2.0 RS232/422/485 (BIOS Select), COM1, Default RS232 RS232/422/485, COM2, COM3 2 x GbE RJ-45 1x DVI-I
Expansion	2x Mini PCIe (1x Half-Size, 1x Full-Size)
Display	12.1" TFT-LCD, Resolution 1280 x 800 Brightness 400 (cd/m²) View angle 176/176 (H°/V°) Backlight lifetime 50,000 hr Contrast ratio 1000:1
Touch Screen	5 Wire Resistive Analoge
Power	12~24 VDC, 35W
Storage	SSD, C-FAST, or HDD
Construction	Aluminum front bezel and Painted Steel chassis
Weight	4.3 Kg
Mounting	Panel mount, VESA 100 x 100
Dimension	319.0(W) mm x 225.0(H) mm x 56.8(D) mm
Operating Temp.	0°C~ 50°C
Storage Temp.	-20° ~80°C
Moisture	10% ~ 90% RH (non-condensing) @40°C
Certification	CE/FCC (EN 61000-6-4, EN 61000-6-2, EN 55022, EN 55024)

PP-A15W
Panel PC

Features

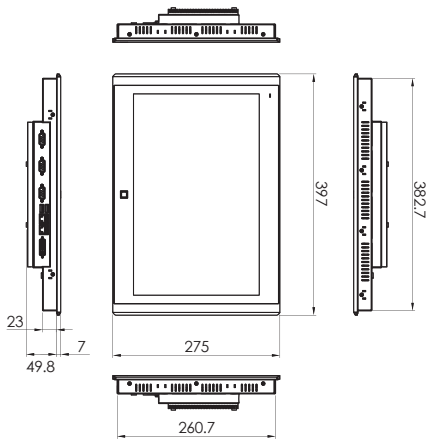
- Intel® Atom™ D2550 1.86 GHz Dual Core
- 15.4" TFT, Resolution 1280 x 800
- Brightness 400 cd/m²
- Backlight Lifetime 50,000 hr
- 12~24 VDC Input
- Aluminum front bezel and painted steel chassis, fan-less design
- Panel Mount, VESA 100 x 100, IP65 front bezel
- Suitable for industrial applications

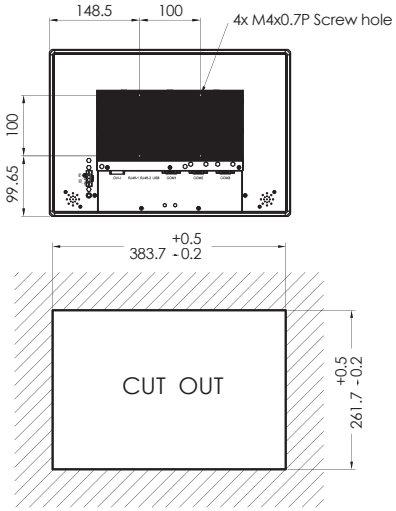
Specifications

CPU Type	Intel® Atom™ D2550 1.86 GHz Dual Core
Chipset	Intel® NM10
Memory	2G/4G
Graphics	Intel® NM10
I/O Interface	2 x USB 2.0, 4 x Internal USB 2.0 RS232/422/485 (BIOS Select), COM1, Default RS232 RS232/422/485, COM2, COM3 2 x GbE RJ-45, 1 x DVI-I 2 x Speaker + Amplifier (Option)
Expansion	2x Mini PCIe (1x Half-Size, 1x Full-Size)
Display	15.4" TFT-LCD, Resolution 1280 x 800 Brightness 400 (cd/m²) View angle 160/140 (H°/V°) Backlight lifetime 50,000 hr Contrast ratio 700:1
Touch Screen	5 Wire Resistive Analoge
Power	12~24 VDC, 38W
Storage	SSD, C-FAST, or HDD
Construction	Aluminum front bezel and Painted Steel chassis
Weight	5.8 Kg
Mounting	Panel mount, VESA 100 x 100
Dimension	397.0(W) x 275.0(H) x 56.8(D) mm
Operating Temp.	0°C~ 50°C
Storage Temp.	-20°C ~ 80°C
Moisture	10% ~ 90% RH (non-condensing) @40°C
Certification	CE/FCC (EN 61000-6-4, EN 61000-6-2, EN 55022, EN 55024)

Ordering Information

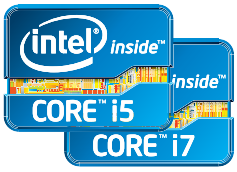
PP-A15W	15.4" TFT, Resolution 1280 x 800, fan-less design, Intel® Atom™ D2550 1.86 GHz Dual Core, 2G/4G memory, resistive touch screen, 12~24 VDC input, Aluminum front bezel and Painted Steel chassis.





Industrial PC

PP-CW Series



	Model	PP-C12W	PP-C15W	PP-C21W
Display	Type	12.1" TFT	15.4" TFT	21.5" TFT
	Resolution	1280x800	1280x800	1920x1080
	Color Depth	16.7M		
	Backlight Type	LED		
	Brightness	400 cd/m²	400 cd/m²	400 cd/m²
	Backlight Lifetime	50,000 hr	50,000 hr	50,000 hr
	Contrast Ratio	1000:1	700:1	5000:1
	View Angle	176/176 (H°/V°)	160/140 (H°/V°)	
	Dimming	7 levels		
System Resources	CPU	Intel® Core i7-4650U (1.7GHz), i5-4300U (1.9GHz)		
	Chipset	Integrated in processor		
	RAM/Non-volatile	2G ~16G		
	Storage	SSD, C-FAST, or HDD		
	RTC	Yes		
Interface	Touch Screen	5 Wire Resistive Analog, (Capacitive Touch - Option)		
	Front	1 x Power Indicator, 1 x Mechanic Switch		
	COM1	RS232/422/485 (BIOS Select)		
	COM2	RS232/422/485		
	COM3	RS232/422/485		
	Ethernet	2 x GbE RJ-45		
	USB	2 x USB 3.0, 2 x Internal USB 2.0		
	Memory Card	—		
	Audio		2 x Speaker + Amplifier (Option)	
	Video Output	1 x DVI-I		
	Expansion	2 x Mini PCIe (1 x Half-size, 1 x Full-size)		
Ratings	Power Input	12~24V		
	Power Consumption	TBD	TBD	TBD
	Weight	TBD	TBD	TBD
	Battery	CR 2032 Replaceable		
Environment	Operating Temp.	0~50°C		
	Storage Temp.	-20~80°C		
	Moisture	10% ~ 90% RH (non-condensing) @40°C		
Mechanical	Construction	Aluminum front bezel and Painted Steel chassis		
	IP Rating	IP65 (Front)		
	Mounting	Panel mount, VESA 100x100		
	Dimension(mm)	319.0 x 225.0 x 56.8	397.0 x 275.0 x 56.8	TBD
	Cut-out(mm)	305.7 x 211.7	383.7 x 261.7	TBD
Approvals	CE/FCC	CE/FCC (EN 61000-6-4, EN 61000-6-2, EN 55022, EN 55024)		
	UL	N/A		
System Support		Windows embedded standard 7, Windows 7 Pro for embedded, Windows XP embedded, Windows XP Pro		

PP-C12W
Panel PC

Specifications

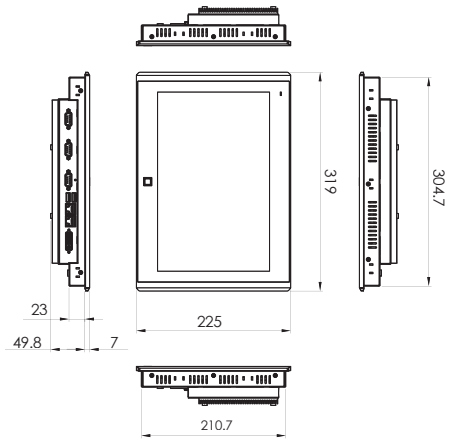
CPU Type	Intel® Core i7-4650U processor (1.7GHz) Intel® Core i5-4300U processor (1.9GHz)
Chipset	Integrated in Processor
Memory	2G ~16G
Graphics	Integrated in Processor
I/O Interface	2 x USB 3.0, 2 x Internal USB 2.0 RS232/422/485(BIOS Select), COM1 RS232/422/485, COM2, COM3 2 x GbE RJ-45, 1 x DVI-I 2 x Speaker + Amplifier (Option)
Expansion	2 x Mini PCIe (1 x Half-size, 1 x Full-size)
Display	12.1" TFT-LCD, Resolution 1280 x 800 Brightness 400 (cd/m²) View angle 176/176 (H°/V°) Backlight lifetime 50,000 hr Contrast ratio 1000:1
Touch Screen	5 Wire Resistive Analoge
Power	12~24 VDC
Storage	SSD, C-FAST, or HDD
Construction	Aluminum front bezel and Painted Steel chassis
Weight	TBD
Mounting	Panel mount, VESA 100 x 100
Dimension	319.0(W) mm x 225.0(H) mm x 56.8(D) mm
Operating Temp.	0°C~ 50°C
Storage Temp.	-20°C ~ 80°C
Moisture	10% ~ 90% RH (non-condensing) @40°C
Certification	CE/FCC (EN 61000-6-4, EN 61000-6-2, EN 55022, EN 55024)

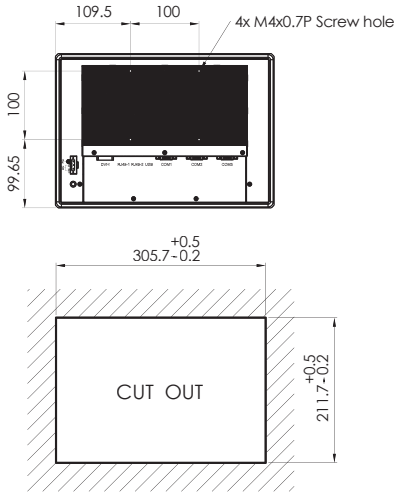
Features

- Intel® Core i U-series Processor
- 12.1" TFT, Resolution 1280 x 800
- Brightness 400 cd/m²
- Backlight Lifetime 50,000 hr
- 12~24 VDC Input
- Aluminum front bezel and Painted Steel chassis, fan-less design
- Panel Mount, VESA 100 x 100, IP65 front bezel
- Suitable for industrial applications

Ordering Information

PP-C12W	12.1" TFT, Resolution 1280 x 800, fan-less HMI with Intel® Core i U-series processor, 2~16G memory, resistive touch screen, 12~24 VDC input, Aluminum front bezel and Painted Steel chassis.





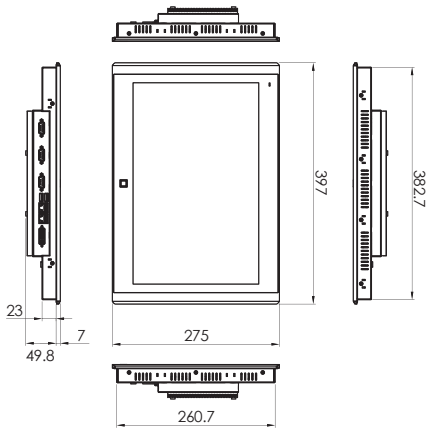
PP-C15W
Panel PC

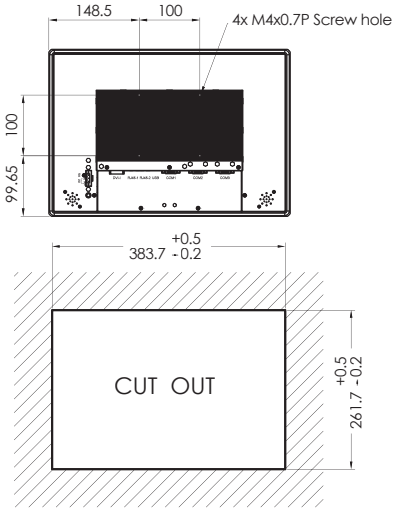
Features

- Intel® Core i U-series Processor
- 15.4" TFT, Resolution 1280 x 800
- Brightness 400 cd/m²
- Backlight Lifetime 50,000 hr
- 12~24 VDC Input
- Aluminum front bezel and Painted Steel chassis, fan-less design
- Panel Mount, VESA 100 x 100, IP65 front bezel
- Suitable for industrial applications

Ordering Information

PP-C15W	15.4"TFT, Resolution 1280 x 800, fan-less HMI with Intel® Core i U-series processor, 2~16G memory, resistive touch screen, 12~24 VDC input, Aluminum front bezel and Painted Steel chassis.





Specifications

CPU Type	Intel® Core i7-4650U processor (1.7GHz) Intel® Core i5-4300U processor (1.9GHz)
Chipset	Integrated in Processor
Memory	2G ~16G
Graphics	Integrated in Processor
I/O Interface	2 x USB 3.0, 2 x Internal USB 2.0 RS232/422/485(BIOS Select), COM1 RS232/422/485, COM2, COM3 2 x GbE RJ-45, 1 x DVI-I 2 x Speaker + Amplifier (Option)
Expansion	2 x Mini PCI-E (1 x Half-size, 1 x Full-size)
Display	15.4" TFT-LCD, Resolution 1280 x 800 Brightness 400 (cd/m²) View angle 160/140 (H°/V°) Backlight lifetime 50,000 hr Contrast ratio 700:1
Touch Screen	5 Wire Resistive Analoge
Power	12~24 VDC
Storage	SSD, C-FAST, or HDD
Construction	Aluminum front bezel and Painted Steel chassis
Weight	TBD
Mounting	Panel mount, VESA 100 x 100
Dimension	397.0(W) x 275.0(H) x 56.8(D) mm
Operating Temp.	0°C~ 50°C
Storage Temp.	-20°C ~ 80°
Moisture	10% ~ 90% RH (non-condensing) @40°C
Certification	CE/FCC (EN 61000-6-4, EN 61000-6-2, EN 55022, EN 55024)

Industrial PC

PP-A Series

	Model	PP-A8	PP-A12	PP-A15
Display	Type	8" TFT	12.1" TFT	15" TFT
	Resolution	800x600	800x600	1024 x 768
	Color Depth	16.7M		
	Backlight Type	LED		
	Brightness	350 cd/m²	330 cd/m²	350 cd/m²
	Backlight Lifetime	40,000 hr	50,000 hr	50,000 hr
	Contrast Ratio	500:1	800:1	800:1
	View Angle	140/125 (H°/V°)	160/140 (H°/V°)	160/145 (H°/V°)
	Dimming	—		
System Resources	CPU	Intel® Atom™ N2600 1.6 GHz Dual Core		
	Chipset	Intel® NM10		
	RAM/Non-volatile	2G		
	Storage	1 x 1.8" SATA 2	1 x 2.5" SATA 2	
	RTC	Yes		
Interface	Touch Screen	5 Wire Resistive Analog, (Capacitive Touch - Option)		
	Front	1 x Power Indicator		
	COM1	RS232/422/485 DB-9, Default RS232		
	COM2	RS232 DB-9		
	COM3	—		
	Ethernet	2 x GbE RJ-45		
	USB	2 x USB 2.0 type A		
	Memory Card	1 x Internal SD		
	Audio	1 x line-out phone jack		
	Video Output	1 x HDMI (Option)		
	Expansion	1 x Mini PCIe (Half-size)		
Ratings	Power Input	9~36V		
	Power Consumption	15.2W	18.0W	19.2W
	Weight	3.2 Kg	4.0 Kg	6.3 Kg
	Battery	CR2477 Replaceable		
Environment	Operating Temp.	0~50°C		
	Storage Temp.	-20~60°C		
	Moisture	10% ~ 90% RH (non-condensing) @40°C		
Mechanical	Construction	Sliver aluminum front bezel and chassis		
	IP Rating	IP65 (Front)		
	Mounting	Panel mount , VESA 75 x 75	Panel mount , VESA 100 x 100	
	Dimension(mm)	231 x 176 x 51	319 x 245 x 51.7	410 x 310 x 54.7
	Cut-out(mm)	222.0 x 167.0	303.0 x 229.0	392.0 x 292.0
Approvals	CE/FCC	CE/FCC Class A		
	UL	UL 60950-1		
System Support		Windows embedded standard 7, Windows 7 Pro for embedded, Windows XP embedded, Windows XP Pro		

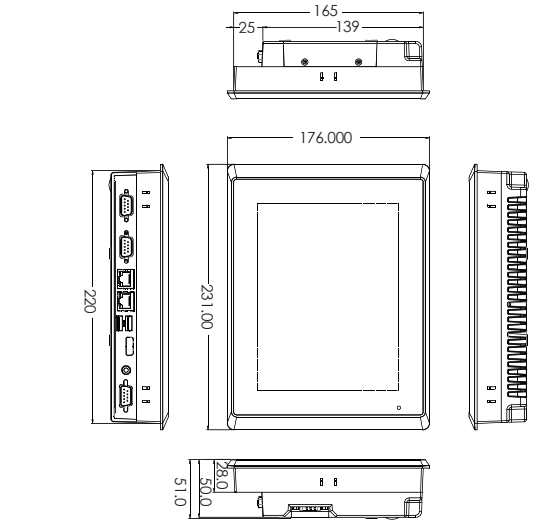
PP-A08
Panel PC

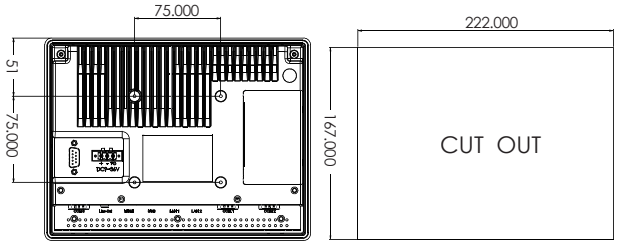
Features

- Intel® Atom™ N2600 1.6 GHz Dual Core
- 8" TFT, Resolution 800x600
- Brightness 350 cd/m²
- Backlight Lifetime 50,000 hr
- 9~36 VDC Input
- Sliver aluminum front bezel and chassis
- fan-less design
- Panel Mount, IP65 front bezel
- Suitable for industrial applications

Ordering Information

PP-A08	8" TFT, Resolution 800 x 600, fan-less HMI with Intel® Atom™ N2600 1.6 GHz Dual Core, 2G memory, resistive touch screen, 9~36 VDC input, Sliver aluminum front bezel and chassis.





Specifications

CPU Type	Intel® Atom™ N2600 1.6 GHz Dual Core
Chipset	Intel® NM10
Memory	2G
Graphics	Intel® NM10 Build-in
I/O Interface	2 x USB 2.0 Type A, USB 4/5 RS232/422/485, COM1, Default RS232 RS232, COM2 2 x GbE RJ-45 1 x Line out phone jack
Expansion	1 x Mini-PCIe (Half size)
Display	8" TFT-LCD, Resolution 800 x 600 Brightness 350 (cd/m²) View angle 140/125 (H°/V°) Backlight lifetime 50,000 hr Contrast ratio 500:1
Touch Screen	5 Wire Resistive Analoge
Power	9~36 VDC, 15.2W
Construction	Sliver aluminum front bezel and chassis
Weight	3.2 Kg
Mounting	Panel mount, VESA 75 x 75
Dimension	231.0 (W) x 176.0 (H) x 51.0 (D) mm
Operating Temp.	0°C~ 50°C
Storage Temp.	-20°C ~ 60°C
Moisture	10% ~ 90% RH (non-condensing) @40°C
Certification	CE/FCC Class A

PP-A12
Panel PC

Features

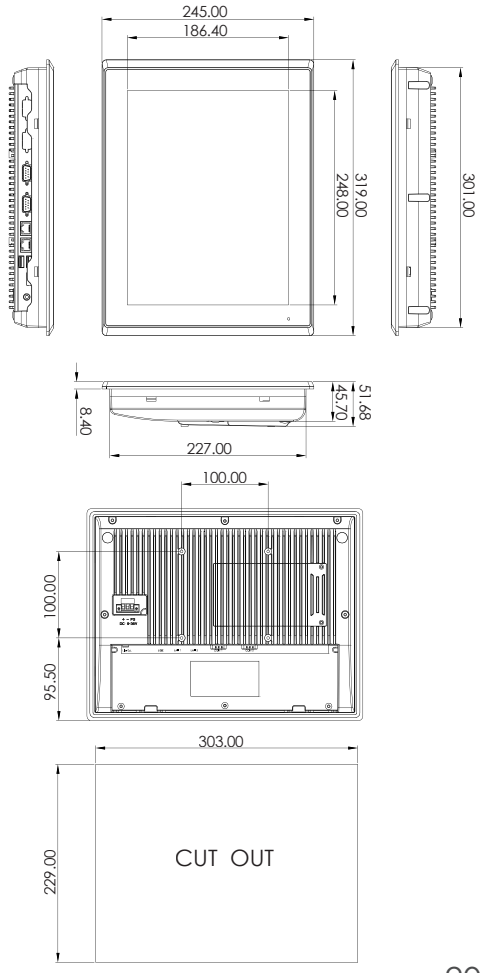
- Intel® Atom™ N2600 1.6 GHz Dual Core
- 12.1" TFT, Resolution 800x600
- Brightness 330 cd/m²
- Backlight Lifetime 50,000 hr
- 9~36 VDC Input
- Sliver aluminum front bezel and chassis
- fan-less design
- Panel Mount, IP65 front bezel
- Suitable for industrial applications

Specifications

CPU Type	Intel® Atom™ N2600 1.6 GHz Dual Core
Chipset	Intel® NM10
Memory	2G
Graphics	Intel® NM10 Build-in
I/O Interface	2 x USB 2.0 Type A, USB 4/5 RS232/422/485, COM1, Default RS232 RS232, COM2 2 x GbE RJ-45 1 x Line out phone jack
Expansion	1 x Mini-PCIe (Half size)
Display	12.1" TFT-LCD, Resolution 800 x 600 Brightness 330 (cd/m²) View angle 160/140 (H°/V°) Backlight lifetime 50,000 hr Contrast ratio 800:1
Touch Screen	5 Wire Resistive Analoge
Power	9~36 VDC, 18W
Construction	Sliver aluminum front bezel and chassis
Weight	4.0 Kg
Mounting	Panel mount, VESA 100 x 100
Dimension	319.0 (W) x 245.0 (H) x 51.7 (D) mm
Operating Temp.	0°C~ 50°C
Storage Temp.	-20° ~ 60°C
Moisture	10% ~ 90% RH (non-condensing) @40°C
Certification	CE/FCC Class A

Ordering Information

PP-A12	12.1" TFT, Resolution 800 x 600, fan-less HMI with Intel® Atom™ N2600 1.6 GHz Dual Core, 2G memory, resistive touch screen, 9~36 VDC input, Sliver aluminum front bezel and chassis.



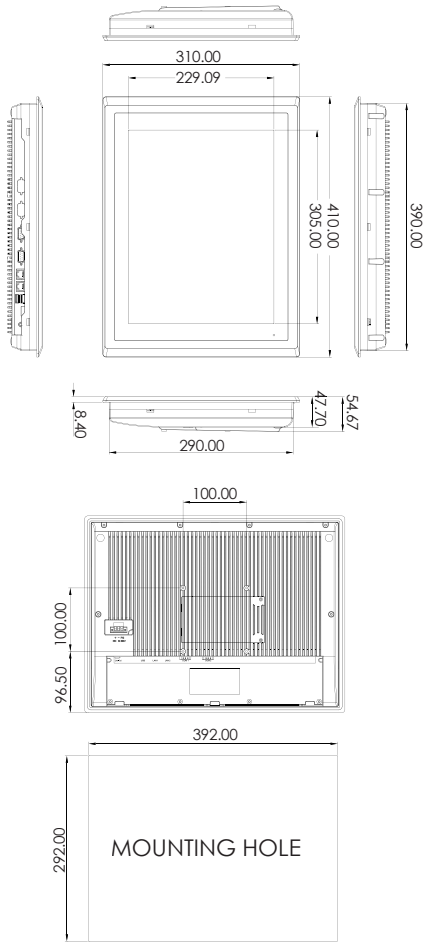
PP-A15
Panel PC

Features

- Intel® Atom™ N2600 1.6 GHz Dual Core
- 15" TFT, Resolution 1024x768
- Brightness 350 cd/m²
- Backlight Lifetime 50,000 hr,
- 9~36 VDC Input
- Sliver aluminum front bezel and chassis
- fan-less design
- Panel Mount, IP65 front bezel
- Suitable for industrial applications

Ordering Information

PP-A15	15" TFT, Resolution 1024 x 768, fan-less HMI with Intel® Atom™ N2600 1.6 GHz Dual Core, 2G memory, resistive touch screen, 9~36 VDC input, Sliver aluminum front bezel and chassis.



Specifications

CPU Type	Intel® Atom™ N2600 1.6 GHz Dual Core
Chipset	Intel® NM10
Memory	2G
Graphics	Intel® NM10 Build-in
I/O Interface	2 x USB 2.0 Type A, USB 4/5 RS232/422/485, COM1, Default RS232 RS232, COM2 2 x GbE RJ-45 1 x Line out phone jack
Expansion	1 x Mini-PCIe (Half size)
Display	12.1" TFT-LCD, Resolution 1024 x 768 Brightness 350 (cd/m²) View angle 160/145 (H°/V°) Backlight lifetime 50,000 hr Contrast ratio 800:1
Touch Screen	5 Wire Resistive Analoge
Power	9~36 VDC, 19.2W
Construction	Sliver aluminum front bezel and chassis
Weight	6.3 Kg
Mounting	Panel mount, VESA 100 x 100
Dimension	410.0 (W) x 310.0 (H) x 54.7 (D) mm
Operating Temp.	0°C~ 50°C
Storage Temp.	-20° ~ 60°C
Moisture	10% ~ 90% RH (non-condensing) @40°C
Certification	CE/FCC Class A

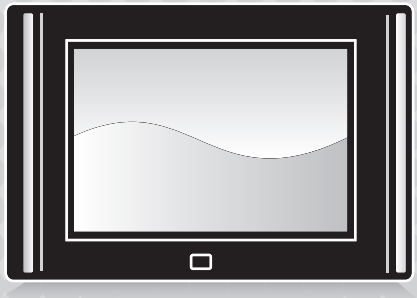
Supported PLC / Controller List

Brand	Series	Support Models
Allen-Bradley	MicroLogix DF1 RS232	All Models
	MicroLogix Ethernet	All Models
Barcode	Barcode Reader	Most Models
CTC Control	CTC Binary	All Models
Delta	DVP	All Models
FATEK	FBs/FBe	All Models
	FBs/FBe TCP	All Models
HUST	CNC Controller	All Models
JECTOR	Controller	All Models
KEYENCE	KV-1000	All Models
	KV-L20V Host Link / KV-nano	All Models
	KV-5000	All Models
KOYO	Direct DL Series	All Models
Mitsubishi	AJ71	All Models
	AJ71 for AnA/AnU	All Models
	AJ71 Format4	All Models
	FR-A700	All Models
	FX Series	FX0N, FX1S
	FX/FX2N Series 232/485BD	All Models
	FX2N Series	FX1N, FX2N
	FX3U	FX3U, FX3UC, FX3G
	FX3U Series 232/485BD	All Models
	FX3U-ENET-ADP	All Models
	Q Series	Q02H, Q06H, Q12H
	QJ71C24 Series	All Models
	QJ71E71 Series	All Models
	Servo Amplifier MR-J4-A	All Models

Brand	Series	Support Models
MODBUS	Modbus RTU Master (HMI as RTU slave)	All Models
	Modbus TCP Master (HMI as TCP slave)	All Models
	Modbus RTU Slave	Most Models
	Modbus RTU Slave (Not Optimized)	All Models
	Modbus TCP Slave	Most Models
	Modbus TCP Slave (Not Optimized)	All Models
Omron	C Series	CQM1H, C200H, TPM1A, CP1E, CP1L
	CS/CJ Series	All Models
	CS/CJ Series FINS TCP	All Models
OPTEX	CD33 Series Sensor	All Models
	CD5 Series Sensor	All Models
Panasonic	FP Series	All Models
PBA Systems	MaxTune VarCom	All Models
Siemens	S7-200 PPI	All Models
	ISO on TCP	All Models
	S5 PG Port	All Models
TECO	TP03 Series	All Models
	Servo	All Models
Vigor	VB Series	All Models
Yamatake	DCP30	All Models
	DMC50	All Models
	SDC35/SDC45	All Models
	NX-D15/25	All Models

Cable / Accessories

Brand	Series	Part Number	Description
Mitsubishi	FX	CFX-C8-02	Mitsubishi,9 pin D-Sub male to 8 pin mini-DIN, 2M
		CFX-C8-04	Mitsubishi,9 pin D-Sub male to 8 pin mini-DIN, 4M
	Q CPU	CQC-C6-02	Mitsubishi,9 pin D-Sub male to 6 pin mini-DIN, 2M
		CQC-C6-04	Mitsubishi,9 pin D-Sub male to 6 pin mini-DIN, 4M
	Q Link	CQL-D9-02	Mitsubishi,9 pin D-Sub male to 9 pin D-Sub male, 2M
		CQL-D9-04	Mitsubishi,9 pin D-Sub male to 9 pin D-Sub male, 4M
FATEK	FB	CFB-C4-02	FATEK,9 pin D-Sub male to 4 pin mini-DIN, 2M
		CFB-C4-04	FATEK,9 pin D-Sub male to 4 pin mini-DIN, 4M
AB	Micrologic	CAB-C8-02	AB Micrologix, 9 pin D-Sub male to 8 pin mini-DIN, 2M
		CAB-C8-04	AB Micrologix, 9 pin D-Sub male to 8 pin mini-DIN, 4M
OMRON	C/CV	COM-D9-02	Omron, 9 pin D-Sub male to 9 pin D-Sub male, 2M
		COM-D9-04	Omron, 9 pin D-Sub male to 9 pin D-Sub male, 4M
Panasonic	FP	CFP-C5-02	Panasonic, 9 pin D-Sub male to 5 pin mini-DIN, 2M
		CFP-C5-04	Panasonic, 9 pin D-Sub male to 5 pin mini-DIN, 4M
Siemens	S7	CS7-D9-02	Siemens, 9 pin D-Sub male to 9 pin D-Sub male, 2M
		CS7-D9-04	Siemens, 9 pin D-Sub male to 9 pin D-Sub male, 4M
Delta	DVP	CDV-C8-02	Delta , 9 pin D-Sub male to 8 pin mini-DIN, 2M
		CDV-C8-04	Delta , 9 pin D-Sub male to 8 pin mini-DIN, 4M
Vigor	VB	CVB-U4-02	Vigor, 9 pin D-Sub male to USB A-type plug , 2M
		CVB-U4-04	Vigor, 9 pin D-Sub male to USB A-type plug , 4M
KEYENCE	KV	CKV-R6-02	Keyence, 9 pin D-Sub male to RJ11 Plug 6P6C, 2M
		CKV-R6-04	Keyence, 9 pin D-Sub male to RJ11 Plug 6P6C, 4M



NOVAKON

Enrich Your Experience

NOVAKON Co., Ltd.

6F., No.120, Lane 235, Pao Chiao Road,
Xindian Dist, New Taipei City 23145, Taiwan
Tel : +886-2-89121932 Fax : +886-2-89121935
www.novakon.com.tw