rexroth
A Bosch Company

CPPXX.4 系列

工业级触控平板电脑

产品手册（Version 1.2）



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FW12D6A 2026-10-23

1 产品列表

序号	Part Number 物料号	New Type Code 型号	New Specification 规格
1	R988086087	CPP10.4AFN-8G0NN-B3D-CN-NN-FW	10.1″ IPC (multi-touch), J6412, 8G RAM, 128G SSD, NEW PANEL, 2x LAN, WIN10 IoT, white
2	R988117579	CPP12.4AGN-8G0NN-B3D-CN-NN-FW	12.1″ IPC (multi-touch), I5, 8G RAM, 128G SSD, NEW PANEL,2x LAN, WIN10 IoT, white
3	R988087603	CPP15.4ADA-8G0WF-B3D-CN-NN-FW	15.6″ IPC (multi-touch), I5, 8G RAM, NEW PANEL, 128G SSD, 2x LAN, WIN10 IoT, white, with Wi-Fi function
4	R988168108	CPP15.4ADA-8G0NN-B3D-CN-NN-FW	15.6″ IPC (multi-touch), I5, 8G RAM, NEW PANEL. 128G SSD, 2x LAN, WIN10 IoT, white
5	R988086089	CPP19.4ACA-8G0NN-B3D-CN-NN-FW	19″ IPC (multi-touch), I5, 8G RAM, NEW PANEL. 128G SSD, 2x LAN, WIN10 IoT, white
6	R988086088	CPP21.4AAD-8G0WF-B3D-CN-VP-FW	21.5″ IPC (multi-touch), I5, 8G RAM, NEW PANEL 128G SSD, 2x LAN, WIN10 IoT, white, with Wi-Fi function, vertical panel
7	R988168109	CPP21.4AAD-8G0NN-B3D-CN-VP-FW	21.5″ IPC (multi-touch), I5, 8G RAM, NEW PANEL. 128G SSD, 2x LAN, WIN10 IoT, white, vertical panel
8	R988171585	CPP10.4EFN-8G0NN-B3D-CN-NN-FW	10.1″ IPC (multi-touch), N97, 8G RAM, NEW PANEL. 128G SSD, 2x LAN, WIN10 IoT, white

2 CPPxx.4 命名规则

	1	2		3	4	5			6		7		8				9		10		11
	CPP	10	.	4	A	F	N	-	8G	0	NN	-	B	3	D	-	CN	-	NN	-	FW
1	面板 PC																				
2	面板尺寸 10=10.1'' 12=12.1'' 15=15.6'' 19=19'' 21=21.5''																				
3	版本																				
4	处理器类型:A=标准型/ E=节能型																				
5	最大分辨率 FN=1280*800/GN=1024*768/DA=1920*1080/CA=1440*900/AD=1080*1920)																				
6	内存大小: 8G0=8G																				
7	NN=不带 WIFI / WF=带 WIFI 连接																				
8	接口: B2D=1xLAN+USB+COM/B3D=2xLAN+USB+COM																				
9	硬盘大小: BN=64GB/CN=128GB																				
10	NN=横屏 /VP=竖屏/ others=定制																				
11	FW=windows 系统																				

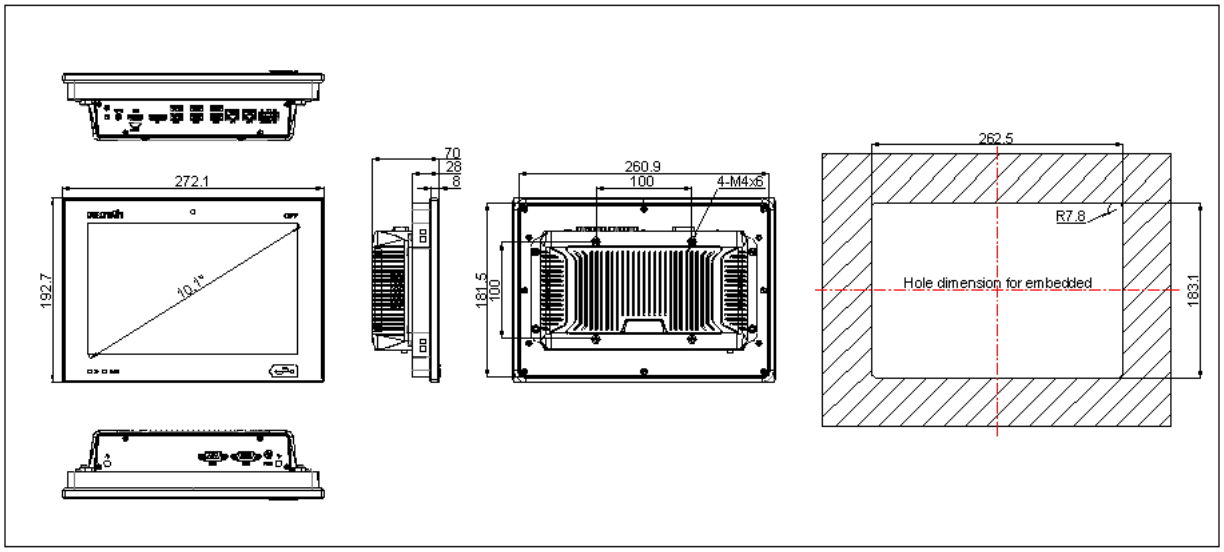
2.1 CPP10.4AFN-8G0NN-B3D-CN-NN-FW 参数

2.1.1 产品规格

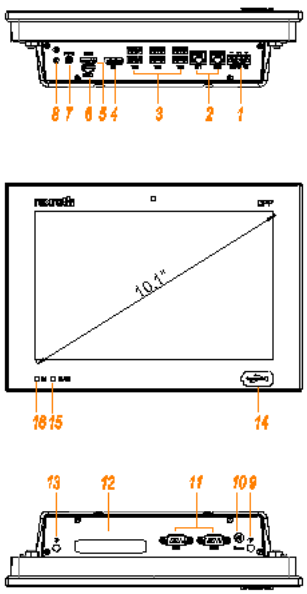
Model		CPP10.4AFN-8G0NN-B3D-CN-NN-FW
LCD	Display Size	10.1"
	Display Type	TFT-LCD
	Max. Resolution	1280 x 800
	Luminance	400 cd/m2
	Aspect Ratio	16:10
	Viewing Angle	89/89/89/89°
	Max. Color	16.7M
	Backlight Lifetime	20,000 hr
	Contrast Ratio	800:1
Touchscreen	Touch Type	Projected Capacitive Touch
	Controller	USB signal
	Input	Finger/Capacitive Touch Pen
	Light Transmission	≥85%
	Hardness	≥6H
Processor System	CPU	Intel® Elkhart Lake J6412
	Base Frequency	2.00 GHz
	Max Turbo Frequency	2.60 GHz
	Cache	1.5MB
	Total Cores/Threads	4/4
	Chipset	SOC
	BIOS	AMI UEFI BIOS (Support Watchdog Timer)
Memory	Socket	1 * DDR4 SO-DIMM
	Capacity	8GB
Graphics	Controller	Intel® UHD Graphics
Ethernet	Controller	2 * Intel® i210-AT (10/100/1000 Mbps, RJ45)
Storage	M.2	128GB(SATA3.0)
Expansion Slots	Mini PCIe	1 * Mini PCIe slot (PCIe2.0x1+USB2.0)
Front I/O	Ethernet	2 * RJ45
	USB	4 * USB3.0 (Type-A) 2 * USB2.0 (Type-A)
	Display	1 * DP++: Max. resolution up to 4096x2160@60Hz 1 * HDMI (Type-A): Max. resolution up to 2048x1080@60Hz
	Audio	1 * 3.5mm audio jack (Line-Out + MIC, CTIA)
	SIM	1 * Nano-SIM card slot (Mini PCIe module provides functional support)
	Power	1 * power input connector (12~28V)
Rear I/O	Button	1 * power button with power LED 1 * PS_ON connector for external power ON/OFF button
	Serial	2 * RS232/485 (COM1/2, DB9/M, BIOS control)
Power Supply	Type	DC
	Power Input Voltage	12~28VDC, P≤50W
	Connector	1 * 2Pin power input connector (12~28V, P= 5.08mm)
	RTC Battery	CR2032 coin cell
Watchdog	Output	system reset
	Interval	programmable via software from 1 to 255 sec
Mechanical	Enclosure Material	radiator: aluminum alloy, box: SGCC
	Mounting	VESA, embedded

	Dimensions (L * W * H, Unit: mm)	272.1*192.7 *70
	Weight	Net: 2.9kg, Total: 5.1kg
Environment	Heat Dissipation System	passive heat dissipation
	Operating Temperature	-20~60℃
	Storage Temperature	-20~60℃
	Relative Humidity	10 to 95% RH (non-condensing)
	Vibration During Operation	with SSD: IEC 60068-2-64 (1Grms@5~500Hz, random, 1hr/axis)
	Shock During Operation	with SSD: IEC 60068-2-27 (15G, half sine, 11ms)
OS	Windows	windows 10 IoT Ent 2021 LTSC

2.1.2 工程图



2.1.3 接口说明



F3A72D-

No.	Description / 描述	No.	Description / 描述
1	DC12~28V power supply interface / 直流 12~28V 电源接口	9	Reserved WIFI / WIFI 天线预留孔
2	LAN interface / 网络接口	10	Power button / 开关按键
3	USB interface / USB 接口	11	COM interface / COM 接口
4	DP interface / DP 接口	12	aDoor interface / aDoor 接口
5	HDMI interface / HDMI 接口	13	Reserved WIFI / WIFI 天线预留孔
6	SIM card slot / SIM 卡槽	14	USB interface / USB 接口
7	Audio jack / 音频接口	15	HDD LED / HDD 指示灯
8	Earth protection / 接地保护	16	PWR LED/电源指示灯

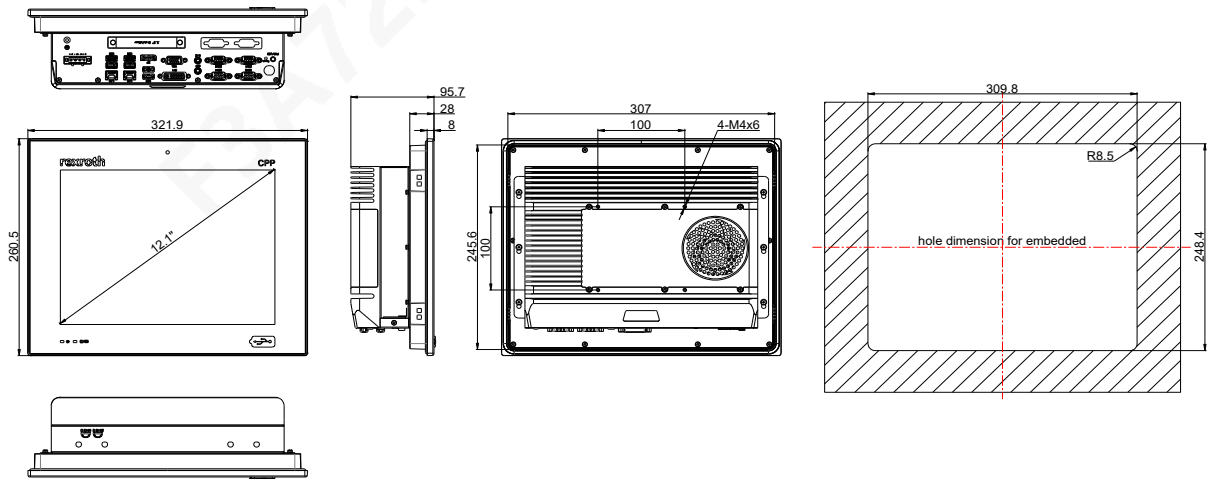
2.2 CPP12.4AGN-8G0NN-B3D-CN-NN-FW 参数

2.2.1 产品规格

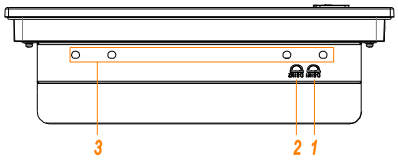
Model		CPP12.4AGN-8G0NN-B3D-CN-NN-FW
LCD	Display Size	12.1"
	Display Type	TFT-LCD
	Max. Resolution	1024 x 768
	Luminance	350 cd/m2
	Aspect Ratio	4:3
	Viewing Angle	80/80/80/80°
	Max. Color	16.7M
	Backlight Lifetime	30,000 hr
	Contrast Ratio	800:1
Touchscreen	Touch Type	Projected Capacitive Touch
	Controller	USB signal
	Input	Finger/Capacitive Touch Pen
	Light Transmission	≥85%
	Hardness	≥6H
Processor System	CPU	Intel® 8th Core I5-8500
	TDP	65W
	Socket	LGA1151
	Chipset	Q170
	BIOS	AMI UEFI BIOS (Support Watchdog Timer)
Memory	Capacity	8GB,DDR4
Graphics	Controller	Intel® HD Graphics
Ethernet	Controller	1 * Intel i210-AT GbE LAN Chip (10/100/1000 Mbps) 1 * Intel i219-LM/V GbE LAN Chip (10/100/1000 Mbps)
Storage	M.2	128GB (SATA3.0)
Expansion Slots	MXM/aDoor	1 * MXM (Optional MXM 4 * LAN/4 * POE/6 * COM/16 * GPIO expansion card) 1 * aDoor Expansion Slot
	Mini PCIe	1 * Mini PCIe (PCIe x1 Gen 2 + USB 2.0, with 1 * SIM Card)
	M.2	1 * M.2 Key-B (PCIe x1 Gen 2 + USB3.0, with 1 * SIM Card, 3052)
Front I/O	Ethernet	2 * RJ45
	USB	6 * USB3.0 (Type-A, 5Gbps)
	Display	1 * DVI-D: max resolution up to 1920*1200 @ 60Hz 1 * VGA (DB15/F): max resolution up to 1920*1200 @ 60Hz 1 * DP: max resolution up to 4096*2160 @ 60Hz

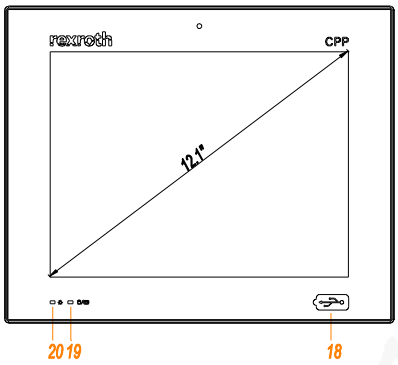
	Audio	2 * 3.5mm Jack (Line-Out + MIC)
	Serial	2 * RS232/422/485 (COM1/2, DB9/M, Full Lanes, BIOS Switch) 2 * RS232 (COM3/4, DB9/M)
	Button	1 * Power Button + Power LED 1 * System Reset Button (Hold down 0.2 to 1s to restart, and hold down 3s to clear CMOS)
Rear I/O	Antenna	4 * Antenna hole
	SIM	2 * Nano SIM card slots
Power Supply	Type	DC, AT/ATX
	Power Input Voltage	18 ~ 36VDC, P≤240W
	Connector	1 * 4Pin Connector, P=5.00/5.08
	RTC Battery	CR2032 Coin Cell
Watchdog	Output	System Reset
	Interval	Programmable via Software from 1 to 255 sec
Mechanical	Enclosure Material	Radiator: Aluminum alloy, Box: SGCC
	Mounting	VESA, embedded
	Dimensions (L * W * H, Unit: mm)	321.9*260.5*95.7
	Weight	Net: 6.6 kg Total: 8.1 kg
Environment	Heat Dissipation System	PWM Fan Cooling
	Operating Temperature	-20~60°C
	Storage Temperature	-20~60°C
	Relative Humidity	10 to 95% RH (non-condensing)
	Vibration During Operation	With SSD: IEC 60068-2-64 (1Grms@5~500Hz, random, 1hr/axis)
	Shock During Operation	With SSD: IEC 60068-2-27 (15G, half sine, 11ms)
OS	Windows	Windows 10 IoT Ent 2021 LTSC

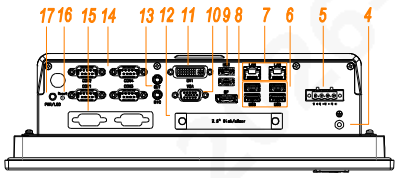
2.2.2 工程图



2.2.3 接口说明







No.	Description / 描述	No.	Description / 描述
1	SIM1 Card / SIM1 卡槽	11	DVI interface / DVI 接口
2	SIM2 Card / SIM2 卡槽	12	2.5" Hard disk slot/2.5 寸硬盘位
3	Reserved WIFI / WIFI 天线预留孔	13	Audio interface / 音频接口
4	Earth protection / 接地保护	14	COM interface / COM 接口
5	DC18~36V power supply interface / 直流 18~36V 电源接口	15	aDoor interface / aDoor 接口
6	USB 3.0 interface / USB 3.0 接口	16	Reset button / 重启按键
7	LAN interface / 网络接口	17	Switch button / 开关按键
8	DP interface / DP 接口	18	USB 2.0 interface / USB 2.0 接口
9	USB 3.0 interface / USB 3.0 接口	19	HDD LED/硬盘指示灯
10	VGA interface / VGA 接口	20	PWR LED/电源指示灯

2.3 CPP15.4ADA-8G0WF-B3D-CN-NN-FW 参数

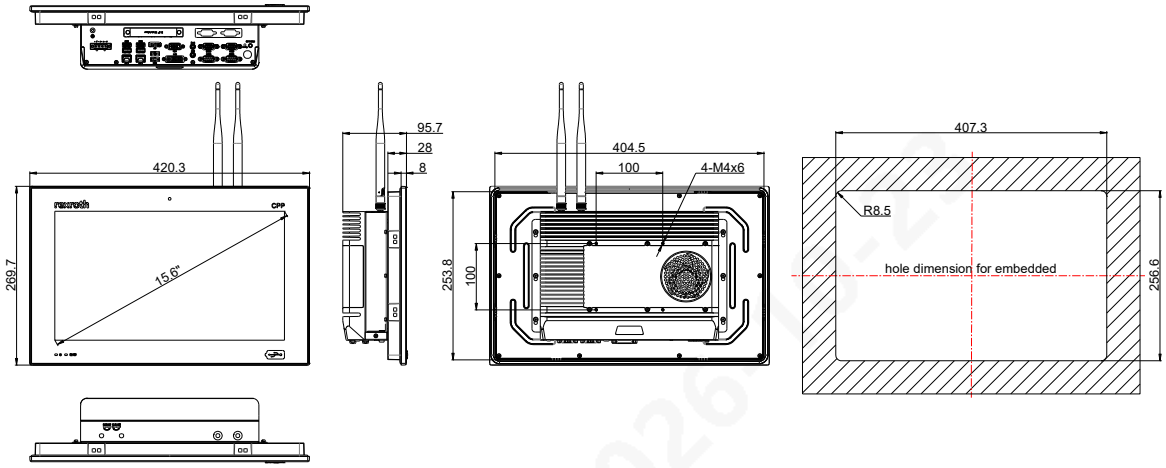
2.3.1 产品规格

Model		CPP15.4ADA-8G0WF-B3D-CN-NN-FW
LCD	Display Size	15.6"
	Display Type	TFT-LCD
	Max. Resolution	1920x 1080
	Luminance	350 cd/m2
	Aspect Ratio	16:9

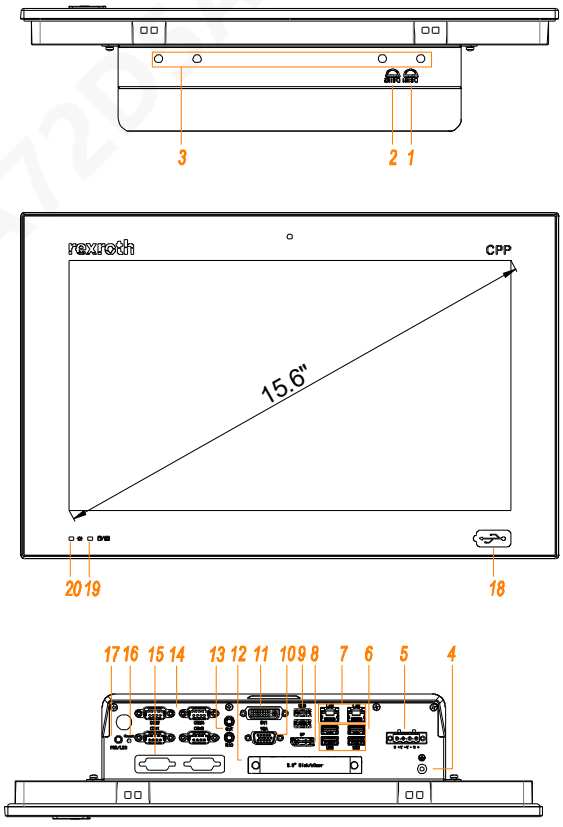
	Viewing Angle	89/89/89/89°
	Max. Color	16.7M
	Backlight Lifetime	50,000 hr
	Contrast Ratio	800:1
Touchscreen	Touch Type	Projected Capacitive Touch
	Controller	USB signal
	Input	Finger/Capacitive Touch Pen
	Light Transmission	≥85%
	Hardness	≥6H
Processor System	CPU	Intel® 8th Core I5-8500
	TDP	65W
	Socket	LGA1151
	Chipset	Q170
	BIOS	AMI UEFI BIOS (Support Watchdog Timer)
Memory	Capacity	8GB,DDR4
Graphics	Controller	Intel® HD Graphics
Ethernet	Controller	1 * Intel i210-AT GbE LAN Chip (10/100/1000 Mbps) 1 * Intel i219-LM/V GbE LAN Chip (10/100/1000 Mbps)
Storage	M.2	128GB (SATA3.0)
Expansion Slots	MXM/aDoor	1 * MXM (Optional MXM 4 * LAN/4 * POE/6 * COM/16 * GPIO expansion card) 1 * aDoor Expansion Slot
	Mini PCIe	1 * Mini PCIe (with wifi module installed by default)
	M.2	1 * M.2 Key-B (PCIe x1 Gen 2 + USB3.0, with 1 * SIM Card, 3052)
Front I/O	Ethernet	2 * RJ45
	USB	6 * USB3.0 (Type-A, 5Gbps)
	Display	1 * DVI-D: max resolution up to 1920*1200 @ 60Hz 1 * VGA (DB15/F): max resolution up to 1920*1200 @ 60Hz 1 * DP: max resolution up to 4096*2160 @ 60Hz
	Audio	2 * 3.5mm Jack (Line-Out + MIC)
	Serial	2 * RS232/422/485 (COM1/2, DB9/M, Full Lanes, BIOS Switch) 2 * RS232 (COM3/4, DB9/M)
	Button	1 * Power Button + Power LED 1 * System Reset Button (Hold down 0.2 to 1s to restart, and hold down 3s to clear CMOS)
Rear I/O	Antenna	4 * Antenna hole
	SIM	2 * Nano SIM card slots
Power Supply	Type	DC, AT/ATX
	Power Input Voltage	18 ~ 36VDC, P≤240W
	Connector	1 * 4Pin Connector, P=5.00/5.08
	RTC Battery	CR2032 Coin Cell
Watchdog	Output	System Reset
	Interval	Programmable via Software from 1 to 255 sec
Mechanical	Enclosure Material	Radiator: Aluminum alloy, Box: SGCC
	Mounting	VESA, embedded
	Dimensions (L * W * H, Unit: mm)	420.3*269.7*95.7
	Weight	Net: 7.9 kg Total: 9.6 kg
Environment	Heat Dissipation System	PWM Fan Cooling
	Operating Temperature	-20~60°C
	Storage Temperature	-30~80°C
	Relative Humidity	10 to 95% RH (non-condensing)

	Vibration During Operation	With SSD: IEC 60068-2-64 (1Grms@5~500Hz, random, 1hr/axis)
	Shock During Operation	With SSD: IEC 60068-2-27 (15G, half sine, 11ms)
OS	Windows	Windows 10 IoT Ent 2021 LTSC

2.3.2 工程图



2.3.3 接口说明



No.	Description / 描述	No.	Description / 描述
1	SIM1 Card / SIM1 卡槽	11	DVI interface / DVI 接口
2	SIM2 Card / SIM2 卡槽	12	2.5" Hard disk slot/2.5 寸硬盘位
3	WIFI antenna position / WIFI 天线位	13	Audio interface / 音频接口
4	Earth protection / 接地保护	14	COM interface / COM 接口
5	DC18~36V power supply interface / 直流 18~36V 电源接口	15	aDoor interface / aDoor 接口
6	USB 3.0 interface / USB 3.0 接口	16	Reset button / 重启按键
7	LAN interface / 网络接口	17	Switch button / 开关按键
8	DP interface / DP 接口	18	USB 2.0 interface / USB 2.0 接口
9	USB 3.0 interface / USB 3.0 接口	19	HDD LED/硬盘指示灯
10	VGA interface / VGA 接口	20	PWR LED/电源指示灯

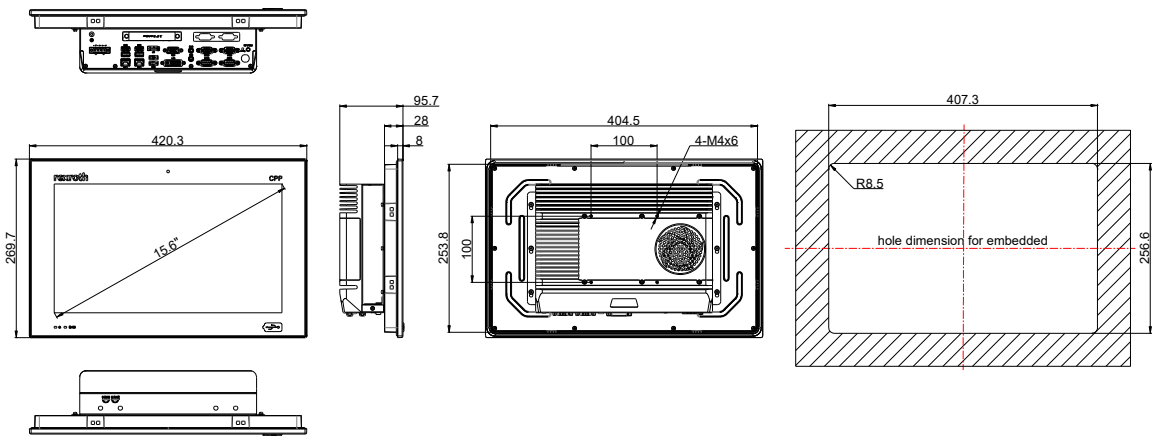
2.4 CPP15.4ADA-8G0NN-B3D-CN-NN-FW 参数

2.4.1 产品规格

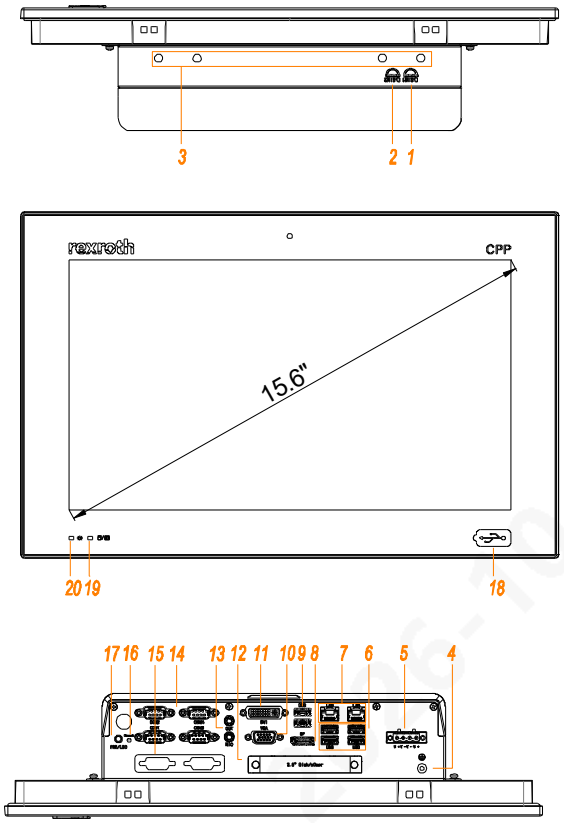
Model		CPP15.4ADA-8G0NN-B3D-CN-NN-FW
LCD	Display Size	15.6"
	Display Type	TFT-LCD
	Max. Resolution	1920x 1080
	Luminance	350 cd/m2
	Aspect Ratio	16:9
	Viewing Angle	89/89/89/89°
	Max. Color	16.7M
	Backlight Lifetime	50,000 hr
	Contrast Ratio	800:1
Touchscreen	Touch Type	Projected Capacitive Touch
	Controller	USB signal
	Input	Finger/Capacitive Touch Pen
	Light Transmission	≥85%
	Hardness	≥6H
Processor System	CPU	Intel® 8th Core I5-8500
	TDP	65W
	Socket	LGA1151
	Chipset	Q170
	BIOS	AMI UEFI BIOS (Support Watchdog Timer)
Memory	Capacity	8GB,DDR4
Graphics	Controller	Intel® HD Graphics
Ethernet	Controller	1 * Intel i210-AT GbE LAN Chip (10/100/1000 Mbps) 1 * Intel i219-LM/V GbE LAN Chip (10/100/1000 Mbps)
Storage	M.2	128GB (SATA3.0)
Expansion Slots	MXM/aDoor	1 * MXM (Optional MXM 4 * LAN/4 * POE/6 * COM/16 * GPIO expansion card) 1 * aDoor Expansion Slot
	Mini PCIe	1 * Mini PCIe (PCIe x1 Gen 2 + USB 2.0, with 1 * SIM Card)

	M.2	1 * M.2 Key-B (PCIe x1 Gen 2 + USB3.0, with 1 * SIM Card, 3052)
Front I/O	Ethernet	2 * RJ45
	USB	6 * USB3.0 (Type-A, 5Gbps)
	Display	1 * DVI-D: max resolution up to 1920*1200 @ 60Hz 1 * VGA (DB15/F): max resolution up to 1920*1200 @ 60Hz 1 * DP: max resolution up to 4096*2160 @ 60Hz
	Audio	2 * 3.5mm Jack (Line-Out + MIC)
	Serial	2 * RS232/422/485 (COM1/2, DB9/M, Full Lanes, BIOS Switch) 2 * RS232 (COM3/4, DB9/M)
	Button	1 * Power Button + Power LED 1 * System Reset Button (Hold down 0.2 to 1s to restart, and hold down 3s to clear CMOS)
Rear I/O	Antenna	4 * Antenna hole
	SIM	2 * Nano SIM card slots
Power Supply	Type	DC, AT/ATX
	Power Input Voltage	18 ~ 36VDC, P≤240W
	Connector	1 * 4Pin Connector, P=5.00/5.08
	RTC Battery	CR2032 Coin Cell
Watchdog	Output	System Reset
	Interval	Programmable via Software from 1 to 255 sec
Mechanical	Enclosure Material	Radiator: Aluminum alloy, Box: SGCC
	Mounting	VESA, embedded
	Dimensions (L * W * H, Unit: mm)	420.3*269.7*95.7
	Weight	Net: 7.9 kg Total: 9.6 kg
Environment	Heat Dissipation System	PWM Fan Cooling
	Operating Temperature	-20~60°C
	Storage Temperature	-30~80°C
	Relative Humidity	10 to 95% RH (non-condensing)
	Vibration During Operation	With SSD: IEC 60068-2-64 (1Grms@5~500Hz, random, 1hr/axis)
	Shock During Operation	With SSD: IEC 60068-2-27 (15G, half sine, 11ms)
OS	Windows	Windows 10 IoT Ent 2021 LTSC

2.4.2 工程图



2.4.3 接口说明



No.	Description / 描述	No.	Description / 描述
1	SIM1 Card / SIM1 卡槽	11	DVI interface / DVI 接口
2	SIM2 Card / SIM2 卡槽	12	2.5" Hard disk slot/2.5 寸硬盘位
3	Reserved WIFI / WIFI 天线预留孔	13	Audio interface / 音频接口
4	Earth protection / 接地保护	14	COM interface / COM 接口
5	DC18~36V power supply interface / 直流 18~36V 电源接口	15	aDoor interface / aDoor 接口
6	USB 3.0 interface / USB 3.0 接口	16	Reset button / 重启按键
7	LAN interface / 网络接口	17	Switch button / 开关按键
8	DP interface / DP 接口	18	USB 2.0 interface / USB 2.0 接口
9	USB 3.0 interface / USB 3.0 接口	19	HDD LED/硬盘指示灯
10	VGA interface / VGA 接口	20	PWR LED/电源指示灯

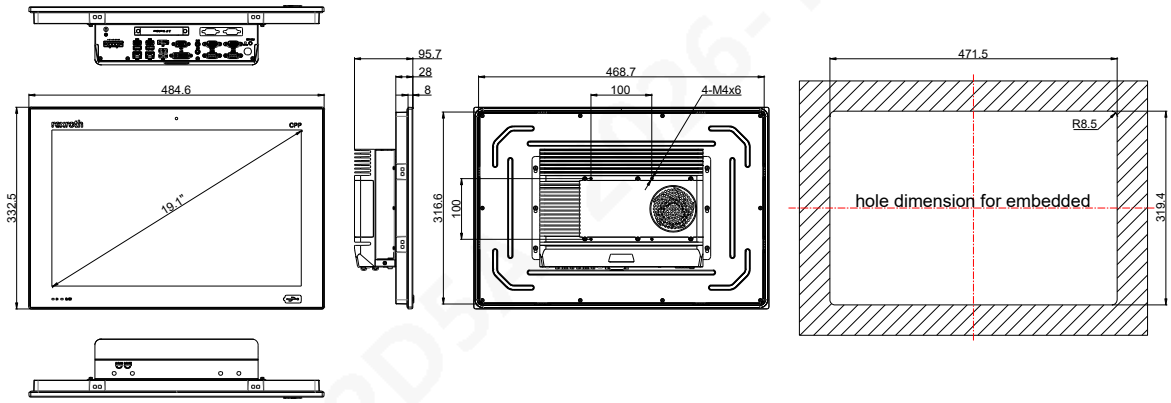
2.5 CPP19.4ACA-8G0NN-B3D-CN-NN-FW 参数

2.5.1 产品规格

Model		CPP19.4ACA-8G0NN-B3D-CN-NN-FW
LCD	Display Size	19"
	Display Type	TFT-LCD
	Max. Resolution	1440x 900
	Luminance	250 cd/m2
	Aspect Ratio	16:10
	Viewing Angle	85/85/80/80°
	Max. Color	16.7M
	Backlight Lifetime	30,000 hr
	Contrast Ratio	1000:1
Touchscreen	Touch Type	Projected Capacitive Touch
	Controller	USB signal
	Input	Finger/Capacitive Touch Pen
	Light Transmission	≥85%
	Hardness	≥6H
Processor System	CPU	Intel® 8th Core I5-8500
	TDP	65W
	Socket	LGA1151
	Chipset	Q170
	BIOS	AMI UEFI BIOS (Support Watchdog Timer)
Memory	Capacity	8GB,DDR4
Graphics	Controller	Intel® HD Graphics
Ethernet	Controller	1 * Intel i210-AT GbE LAN Chip (10/100/1000 Mbps) 1 * Intel i219-LM/V GbE LAN Chip (10/100/1000 Mbps)
Storage	M.2	128GB (SATA3.0)
Expansion Slots	MXM/aDoor	1 * MXM (Optional MXM 4 * LAN/4 * POE/6 * COM/16 * GPIO expansion card) 1 * aDoor Expansion Slot
	Mini PCIe	1 * Mini PCIe (PCIe x1 Gen 2 + USB 2.0, with 1 * SIM Card)
	M.2	1 * M.2 Key-B (PCIe x1 Gen 2 + USB3.0, with 1 * SIM Card, 3052)
Front I/O	Ethernet	2 * RJ45
	USB	6 * USB3.0 (Type-A, 5Gbps)
	Display	1 * DVI-D: max resolution up to 1920*1200 @ 60Hz 1 * VGA (DB15/F): max resolution up to 1920*1200 @ 60Hz 1 * DP: max resolution up to 4096*2160 @ 60Hz
	Audio	2 * 3.5mm Jack (Line-Out + MIC)
	Serial	2 * RS232/422/485 (COM1/2, DB9/M, Full Lanes, BIOS Switch) 2 * RS232 (COM3/4, DB9/M)
	Button	1 * Power Button + Power LED 1 * System Reset Button (Hold down 0.2 to 1s to restart, and hold down 3s to clear CMOS)
Rear I/O	Antenna	4 * Antenna hole
	SIM	2 * Nano SIM card slots
Power Supply	Type	DC, AT/ATX
	Power Input Voltage	18 ~ 36VDC, P≤240W
	Connector	1 * 4Pin Connector, P=5.00/5.08
	RTC Battery	CR2032 Coin Cell
Watchdog	Output	System Reset

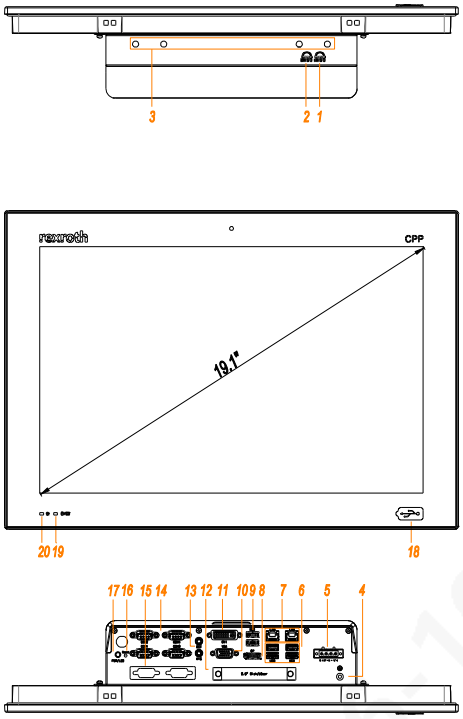
	Interval	Programmable via Software from 1 to 255 sec
Mechanical	Enclosure Material	Radiator: Aluminum alloy, Box: SGCC
	Mounting	VESA, embedded
	Dimensions (L * W * H, Unit: mm)	484.6*332.5*95.7
	Weight	Net: 10 kg Total: 11.5 kg
Environment	Heat Dissipation System	PWM Fan Cooling
	Operating Temperature	0~50℃
	Storage Temperature	-20~60℃
	Relative Humidity	10 to 95% RH (non-condensing)
	Vibration During Operation	With SSD: IEC 60068-2-64 (1Grms@5~500Hz, random, 1hr/axis)
	Shock During Operation	With SSD: IEC 60068-2-27 (15G, half sine, 11ms)
OS	Windows	Windows 10 IoT Ent 2021 LTSC

2.5.2 工程图



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2.5.3 接口说明



No.	Description / 描述	No.	Description / 描述
1	SIM1 Card / SIM1 卡槽	11	DVI interface / DVI 接口
2	SIM2 Card / SIM2 卡槽	12	2.5" Hard disk slot/2.5 寸硬盘位
3	Reserved WIFI / WIFI 天线预留孔	13	Audio interface / 音频接口
4	Earth protection / 接地保护	14	COM interface / COM 接口
5	DC18~36V power supply interface / 直流 18~36V 电源接口	15	aDoor interface / aDoor 接口
6	USB 3.0 interface / USB 3.0 接口	16	Reset button / 重启按键
7	LAN interface / 网络接口	17	Switch button / 开关按键
8	DP interface / DP 接口	18	USB 2.0 interface / USB 2.0 接口
9	USB 3.0 interface / USB 3.0 接口	19	HDD LED/硬盘指示灯
10	VGA interface / VGA 接口	20	PWR LED/电源指示灯

2.6 CPP21.4AAD-8G0WF-B3D-CN-VP-FW 参数

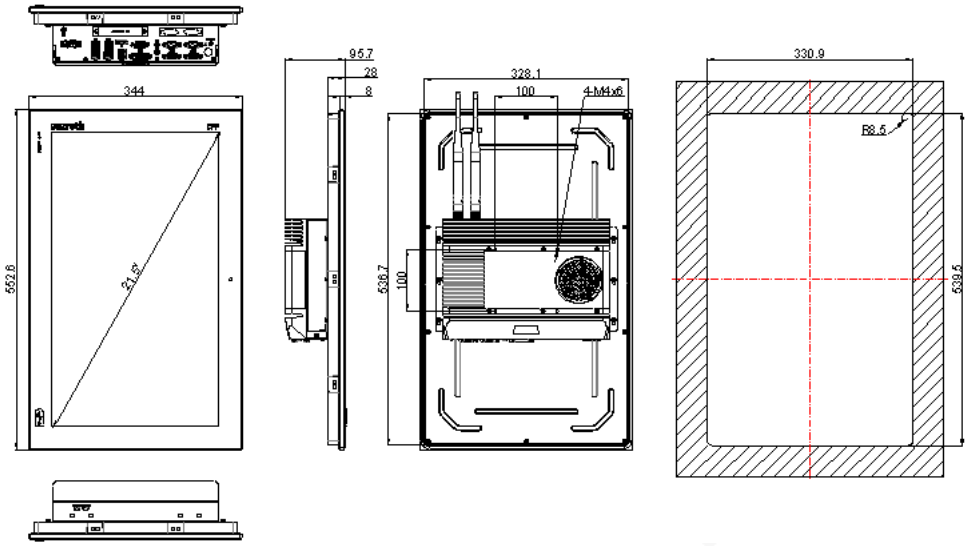
2.6.1 产品规格

Model		CPP21.4AAD-8G0WF-B3D-CN-VP-FW
LCD	Display Size	21.5"
	Display Type	TFT-LCD
	Max. Resolution	1080 x 1920
	Luminance	250 cd/m2
	Aspect Ratio	16:9
	Viewing Angle	89/89/89/89°
	Max. Color	16.7M

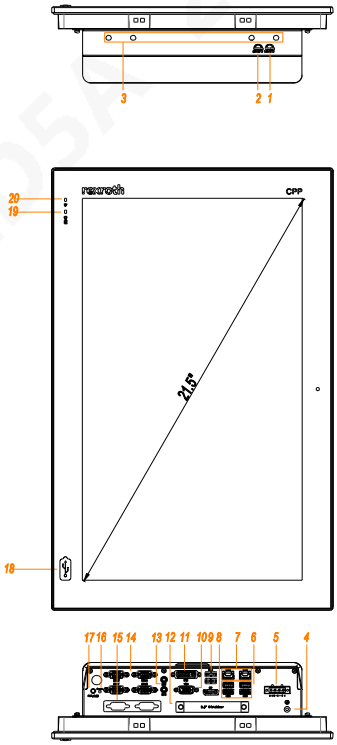
	Backlight Lifetime	30,000 hr
	Contrast Ratio	1000:1
Touchscreen	Touch Type	Projected Capacitive Touch
	Controller	USB signal
	Input	Finger/Capacitive Touch Pen
	Light Transmission	≥85%
	Hardness	≥6H
Processor System	CPU	Intel® 8th Core I5-8500
	TDP	65W
	Socket	LGA1151
	Chipset	Q170
	BIOS	AMI UEFI BIOS (Support Watchdog Timer)
Memory	Capacity	8GB,DDR4
Graphics	Controller	Intel® HD Graphics
Ethernet	Controller	1 * Intel i210-AT GbE LAN Chip (10/100/1000 Mbps) 1 * Intel i219-LM/V GbE LAN Chip (10/100/1000 Mbps)
Storage	M.2	128GB (SATA3.0)
Expansion Slots	MXM/aDoor	1 * MXM (Optional MXM 4 * LAN/4 * POE/6 * COM/16 * GPIO expansion card) 1 * aDoor Expansion Slot
	Mini PCIe	1 * Mini PCIe (with wifi module installed by default)
	M.2	1 * M.2 Key-B (PCIe x1 Gen 2 + USB3.0, with 1 * SIM Card, 3052)
Front I/O	Ethernet	2 * RJ45
	USB	6 * USB3.0 (Type-A, 5Gbps)
	Display	1 * DVI-D: max resolution up to 1920*1200 @ 60Hz 1 * VGA (DB15/F): max resolution up to 1920*1200 @ 60Hz 1 * DP: max resolution up to 4096*2160 @ 60Hz
	Audio	2 * 3.5mm Jack (Line-Out + MIC)
	Serial	2 * RS232/422/485 (COM1/2, DB9/M, Full Lanes, BIOS Switch) 2 * RS232 (COM3/4, DB9/M)
	Button	1 * Power Button + Power LED 1 * System Reset Button (Hold down 0.2 to 1s to restart, and hold down 3s to clear CMOS)
Rear I/O	Antenna	4 * Antenna hole
	SIM	2 * Nano SIM card slots
Power Supply	Type	DC, AT/ATX
	Power Input Voltage	18 ~ 36VDC, P≤240W
	Connector	1 * 4Pin Connector, P=5.00/5.08
	RTC Battery	CR2032 Coin Cell
Watchdog	Output	System Reset
	Interval	Programmable via Software from 1 to 255 sec
Mechanical	Enclosure Material	Radiator: Aluminum alloy, Box: SGCC
	Mounting	VESA, embedded
	Dimensions (L * W * H, Unit: mm)	344*552.6*95.7
	Weight	Net: 9.8 kg Total: 11.3 kg
Environment	Heat Dissipation System	PWM Fan Cooling
	Operating Temperature	0~50°C
	Storage Temperature	-20~60°C
	Relative Humidity	10 to 95% RH (non-condensing)
	Vibration During Operation	With SSD: IEC 60068-2-64 (1Grms@5~500Hz, random, 1hr/axis)
	Shock During Operation	With SSD: IEC 60068-2-27 (15G, half sine, 11ms)

OS	Windows	Windows 10 IoT Ent 2021 LTSC

2.6.2 工程图



2.6.3 接口说明



No.	Description / 描述	No.	Description / 描述
1	SIM1 Card / SIM1 卡槽	11	DVI interface / DVI 接口
2	SIM2 Card / SIM2 卡槽	12	2.5" Hard disk slot/2.5 寸硬盘位
3	WIFI antenna position / WIFI 天线位	13	Audio interface / 音频接口
4	Earth protection / 接地保护	14	COM interface / COM 接口

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5	DC18~36V power supply interface / 直流 18~36V 电源接口	15	aDoor interface / aDoor 接口
6	USB 3.0 interface / USB 3.0 接口	16	Reset button / 重启按键
7	LAN interface / 网络接口	17	Switch button / 开关按键
8	DP interface / DP 接口	18	USB 2.0 interface / USB 2.0 接口
9	USB 3.0 interface / USB 3.0 接口	19	HDD LED/硬盘指示灯
10	VGA interface / VGA 接口	20	PWR LED/电源指示灯

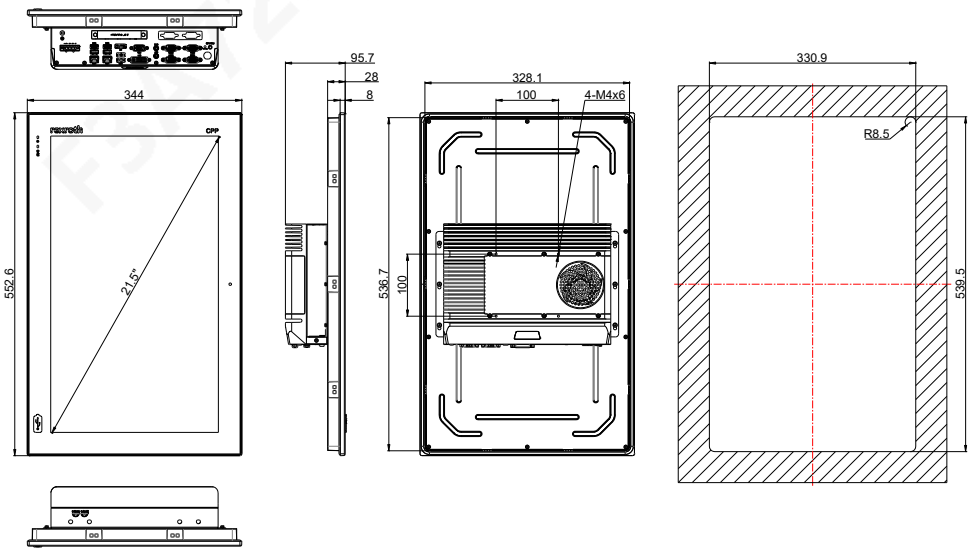
2.7 CPP21.4AAD-8G0NN-B3D-CN-VP-FW 参数

2.7.1 产品规格

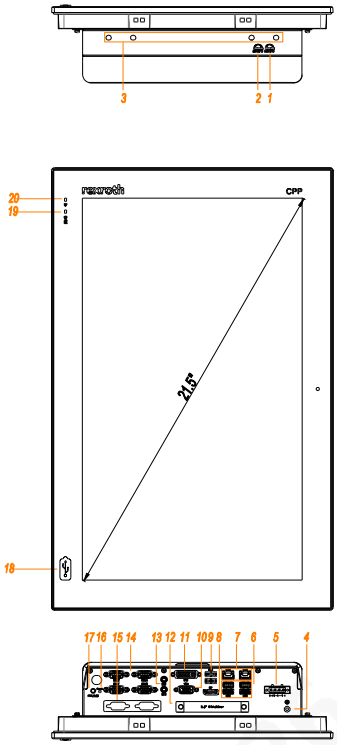
Model		CPP21.4AAD-8G0NN-B3D-CN-VP-FW
LCD	Display Size	21.5"
	Display Type	TFT-LCD
	Max. Resolution	1080 x 1920
	Luminance	250 cd/m2
	Aspect Ratio	16:9
	Viewing Angle	89/89/89/89°
	Max. Color	16.7M
	Backlight Lifetime	30,000 hr
	Contrast Ratio	1000:1
Touchscreen	Touch Type	Projected Capacitive Touch
	Controller	USB signal
	Input	Finger/Capacitive Touch Pen
	Light Transmission	≥85%
	Hardness	≥6H
Processor System	CPU	Intel® 8th Core I5-8500
	TDP	65W
	Socket	LGA1151
	Chipset	Q170
	BIOS	AMI UEFI BIOS (Support Watchdog Timer)
Memory	Capacity	8GB,DDR4
Graphics	Controller	Intel® HD Graphics
Ethernet	Controller	1 * Intel i210-AT GbE LAN Chip (10/100/1000 Mbps) 1 * Intel i219-LM/V GbE LAN Chip (10/100/1000 Mbps)
Storage	M.2	128GB (SATA3.0)
Expansion Slots	MXM/aDoor	1 * MXM (Optional MXM 4 * LAN/4 * POE/6 * COM/16 * GPIO expansion card) 1 * aDoor Expansion Slot
	Mini PCIe	1 * Mini PCIe (PCIe x1 Gen 2 + USB 2.0, with 1 * SIM Card)
	M.2	1 * M.2 Key-B (PCIe x1 Gen 2 + USB3.0, with 1 * SIM Card, 3052)
Front I/O	Ethernet	2 * RJ45
	USB	6 * USB3.0 (Type-A, 5Gbps)
	Display	1 * DVI-D: max resolution up to 1920*1200 @ 60Hz 1 * VGA (DB15/F): max resolution up to 1920*1200 @ 60Hz 1 * DP: max resolution up to 4096*2160 @ 60Hz
	Audio	2 * 3.5mm Jack (Line-Out + MIC)

	Serial	2 * RS232/422/485 (COM1/2, DB9/M, Full Lanes, BIOS Switch) 2 * RS232 (COM3/4, DB9/M)
	Button	1 * Power Button + Power LED 1 * System Reset Button (Hold down 0.2 to 1s to restart, and hold down 3s to clear CMOS)
Rear I/O	Antenna	4 * Antenna hole
	SIM	2 * Nano SIM card slots
Power Supply	Type	DC, AT/ATX
	Power Input Voltage	18 ~ 36VDC, P≤240W
	Connector	1 * 4Pin Connector, P=5.00/5.08
	RTC Battery	CR2032 Coin Cell
Watchdog	Output	System Reset
	Interval	Programmable via Software from 1 to 255 sec
Mechanical	Enclosure Material	Radiator: Aluminum alloy, Box: SGCC
	Mounting	VESA, embedded
	Dimensions (L * W * H, Unit: mm)	344*552.6*95.7
	Weight	Net: 9.8 kg Total: 11.3 kg
Environment	Heat Dissipation System	PWM Fan Cooling
	Operating Temperature	0~50°C
	Storage Temperature	-20~60°C
	Relative Humidity	10 to 95% RH (non-condensing)
	Vibration During Operation	With SSD: IEC 60068-2-64 (1Grms@5~500Hz, random, 1hr/axis)
	Shock During Operation	With SSD: IEC 60068-2-27 (15G, half sine, 11ms)
OS	Windows	Windows 10 IoT Ent 2021 LTSC

2.7.2 工程图



2.7.3 接口说明



No.	Description / 描述	No.	Description / 描述
1	SIM1 Card / SIM1 卡槽	11	DVI interface / DVI 接口
2	SIM2 Card / SIM2 卡槽	12	2.5" Hard disk slot/2.5 寸硬盘位
3	Reserved WIFI / WIFI 天线预留孔	13	Audio interface / 音频接口
4	Earth protection / 接地保护	14	COM interface / COM 接口
5	DC18~36V power supply interface / 直流 18~36V 电源接口	15	aDoor interface / aDoor 接口
6	USB 3.0 interface / USB 3.0 接口	16	Reset button / 重启按键
7	LAN interface / 网络接口	17	Switch button / 开关按键
8	DP interface / DP 接口	18	USB 2.0 interface / USB 2.0 接口
9	USB 3.0 interface / USB 3.0 接口	19	HDD LED/硬盘指示灯
10	VGA interface / VGA 接口	20	PWR LED/电源指示灯

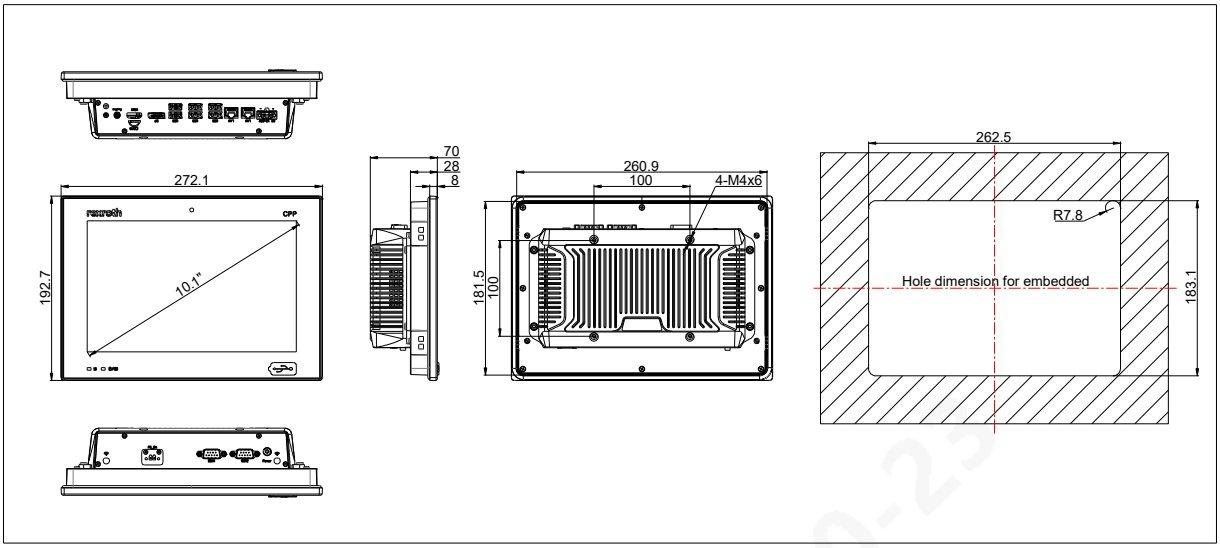
2.8 CPP10.4EFN-8G0NN-B3D-CN-NN-FW 参数

2.8.1 产品规格

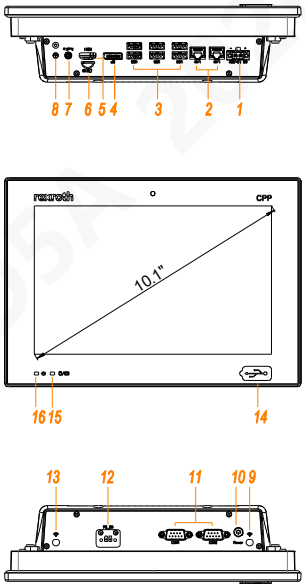
Model		CPP10.4EFN-8G0NN-B3D-CN-NN-FW
LCD	Display Size	10.1"
	Display Type	TFT-LCD
	Max.Resolution	1280 x 800
	Luminance	400 cd/m2
	Aspect Ratio	16:10
	Viewing Angle	89/89/89/89°
	Max. Color	16.7M
	Backlight Lifetime	20,000 hr

	Contrast Ratio	800:1
Touchscreen	Touch Type	Projected Capacitive Touch
	Controller	USB signal
	Input	Finger/Capacitive Touch Pen
	Light Transmission	≥85%
	Hardness	≥6H
Processor System	CPU	Intel® Alder Lake N97
	Base Frequency	2.0 GHz
	Max Turbo Frequency	3.60 GHz
	Cache	6MB
	Total Cores/Threads	4/4
	Chipset	SOC
	BIOS	AMI UEFI BIOS (Support Watchdog Timer)
Memory	Socket	1 * DDR4 SO-DIMM
	Capacity	8GB
Graphics	Controller	Intel® UHD Graphics
Ethernet	Controller	2 * Intel® i210-AT (10/100/1000 Mbps, RJ45)
Storage	M.2	128GB
Expansion Slots	Mini PCIe	1 * Mini PCIe slot (PCIe2.0x1+USB2.0)
Front I/O	Ethernet	2 * RJ45
	USB	4 * USB3.0 (Type-A) 2 * USB2.0 (Type-A)
	Display	1 * DP++: Max. resolution up to 4096x2160@60Hz 1 * HDMI (Type-A): Max. resolution up to 2048x1080@60Hz
	Audio	1 * 3.5mm audio jack (Line-Out + MIC, CTIA)
	SIM	1 * Nano-SIM card slot (Mini PCIe module provides functional support)
	Power	1 * power input connector (12~28V)
Rear I/O	Button	1 * power button with power LED 1 * PS_ON connector for external power ON/OFF button
	Serial	2 * RS232/485 (COM1/2, DB9/M, BIOS control)
Power Supply	Type	DC
	Power Input Voltage	12~28VDC, P≤50W
	Connector	1 * 2Pin power input connector (12~28V, P= 5.08mm)
	RTC Battery	CR2032 coin cell
Watchdog	Output	system reset
	Interval	programmable via software from 1 to 255 sec
Mechanical	Enclosure Material	radiator: aluminum alloy, box: SGCC
	Mounting	VESA, embedded
	Dimensions (L * W * H, Unit: mm)	272.1*192.7 *70
	Weight	Net: 2.9kg, Total: 5.1kg
Environment	Heat Dissipation System	passive heat dissipation
	Operating Temperature	-20~60℃
	Storage Temperature	-20~60℃
	Relative Humidity	10 to 95% RH (non-condensing)
	Vibration During Operation	with SSD: IEC 60068-2-64 (1Grms@5~500Hz, random, 1hr/axis)
	Shock During Operation	with SSD: IEC 60068-2-27 (15G, half sine, 11ms)
OS	Windows	windows 10 IoT Ent 2021 LTSC

2.8.2 工程图



2.8.3 接口说明



No.	Description / 描述	No.	Description / 描述
1	DC12~28V power supply interface / 直流 12~28V 电源接口	9	Reserved WIFI / WIFI 天线预留孔
2	LAN interface / 网络接口	10	Power button / 开关按键
3	USB interface / USB 接口	11	COM interface / COM 接口
4	DP interface / DP 接口	12	PS_ON / 开关机信号接口
5	HDMI interface / HDMI 接口	13	Reserved WIFI / WIFI 天线预留孔
6	SIM card slot / SIM 卡槽	14	USB interface / USB 接口
7	Audio jack / 音频接口	15	HDD LED / HDD 指示灯
8	Earth protection / 接地保护	16	PWR LED/电源指示灯