Gabriele Leita

automazione industriale

Agente per le province di Verona, Trento e Bolzano con l'esclusiva dei marchi trattati

HARDWARE SOLUTIONS

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HARDWARE SOLUTIONS

VISION

Series

6XX

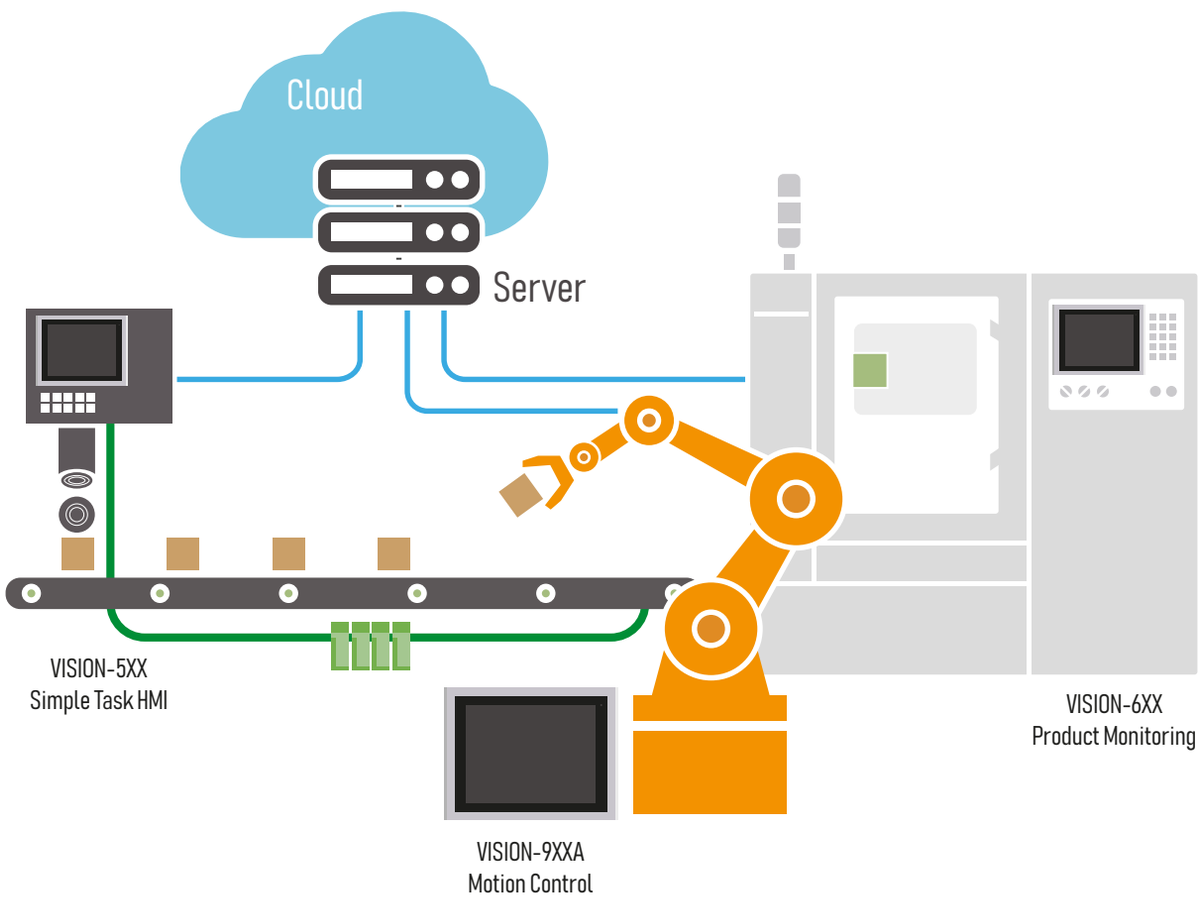
9XXA

2019

NOTES

VISION Series
Rugged Control HMI

Its fanless design offers 24/7 reliability, from low power Intel Atom to latest Core i5/i3 (Skylake) CPU.
The projected capacitive touch screen with pure flat, multi-touch support, anti-scratching, Wi-Fi, Dual LAN Serial and USB functionality.



Compact Size Low Power

VISION 6XX Series

Intel® Celeron™ N2930

- Factory Automation
- H2M / HMI
- Remote Data Collection
- Monitor AOI Status

High Performance Expandable

VISION 9XXA Series

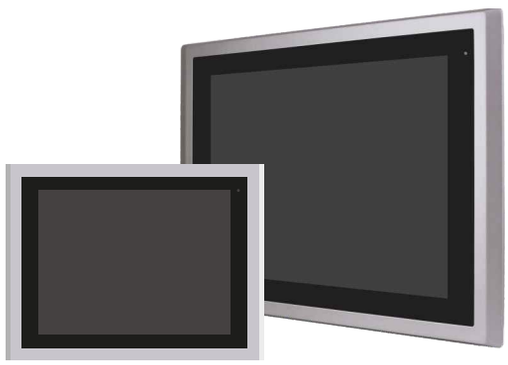
6th Gen. Intel® Core™ i5/i3

- Multi-Tasking Capable
- Ready for FHD / UHD 4K Video
- SCADA / HMI
- IIoT Monitor Control

VISION Series

• Features

- Available from 7" to 32"
- CPU: Intel® Celeron™ N2930 & 6th Gen. Core™ i5/i3
- RAM: Onboard 4GB DDR3/DDR4 (up to 8GB) RAM
- Zero Bezel Resistive / Projected Capacitive Touch Screen
- Touch: Resistive & Capacitive Touch Optional
- Front IP66 Certified & IP69K Compliant
- Flat Bezel Design
- Supports Smart Battery Backup
- Optional Expansion I/O Board: TB-528



Flat Front Panel Design

Meets IP66 Standard

Aluminum Die-Casting Chassis

Fanless Design

Easily Accessible Storage Design

Wide Range

DC 936V Power Input

• Sunlight Readable HMI

VISION-6XX / VISION 9XXA: Ideal for High Ambient Light Applications

Auto Dimming

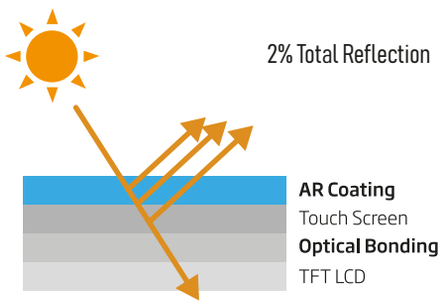
Auto Dimming for Option
Automatically Adjust LCD Brightness

High Brightness

Normal

1,000 nits High Brightness

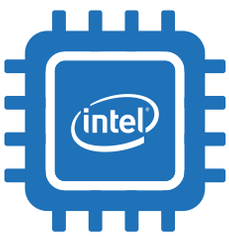
Optical Bonding & AR Coating



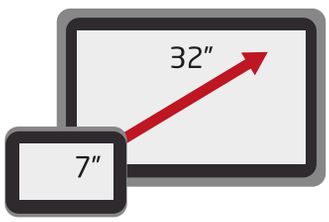
LCD Optical Bonding and
Anti-Reflection Coating for Option

*Optical bonding is also recommended in large Temp. difference environment

16:9 Wide creen & Multi-touch
Capacitive / Resistive Touch Optional



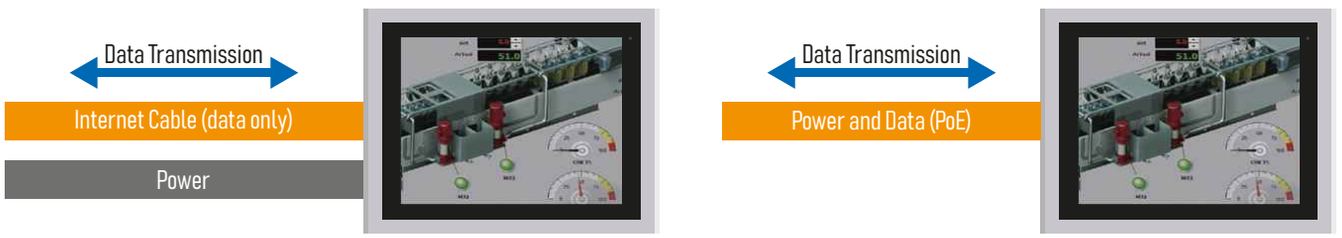
From Intel® Celeron™ to the
latest Skylake Core™ i CPU



Available LCD Sizes
from 7" ~ 32"

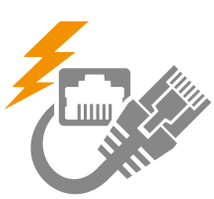
Optional Power over Ethernet Module

• Single Cable for Data and Power Transmission



With PoE technology, it allows the unit to transmit power and data directly through Ethernet cable.
This technology simplifies the installation process and provides centralized power management as a maintenance-free solution.

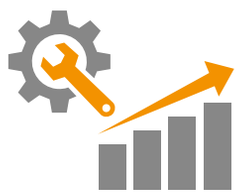
• The Benefit of PoE



Useful for Powering Remote Devices

Reduce Cable Wiring

Time and Cost Savings

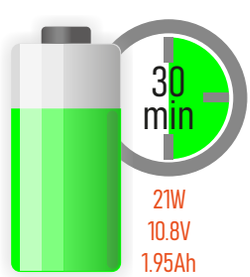


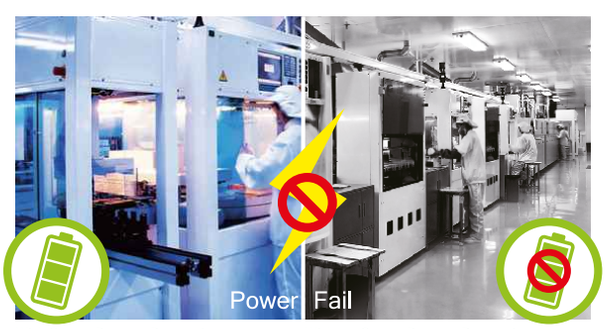
Easy to mantain and Upgrade

VISION Series with smart battery

• Work as UPS to Save Your Data

An optional smart battery is available to VISION-6XX(P)H series, which provides up to 30 minutes of emergency backup power source for unexpected power interruption.





With Smart Battery Protection | Without Smart Battery Protection

*NOTE: The backup time varies on different models or operating Temp.

Selection Guide

Model	VISION-610(P)H	VISION-612(P)H	VISION-615(P)H	VISION-616(P)H	VISION-617(P)H	VISION-618(P)H	VISION-619(P)H	VISION-621(P)H
Display	10.1" TFT-LCD	12.1" TFT-LCD	15" TFT-LCD	15.6" TFT-LCD	17" TFT-LCD	18.5" TFT-LCD	19" TFT-LCD	21.5" TFT-LCD
Battery	●	●	●	●	●	●	●	●
PoE	●	●	●	●				

Model	VISION-912A(P)H	VISION-915A(P)H	VISION-916A(P)H	VISION-917A(P)H	VISION-918A(P)H	VISION-919A(P)H	VISION-921A(P)H
Display	12.1" TFT-LCD	15" TFT-LCD	15.6" TFT-LCD	17" TFT-LCD	18.5" TFT-LCD	19" TFT-LCD	21.5" TFT-LCD
Battery	●	●	●	●	●	●	●

*NOTE: The Smart Battery and PoE function can't use simultaneously

6XX | innovating fast, Baytrail solution

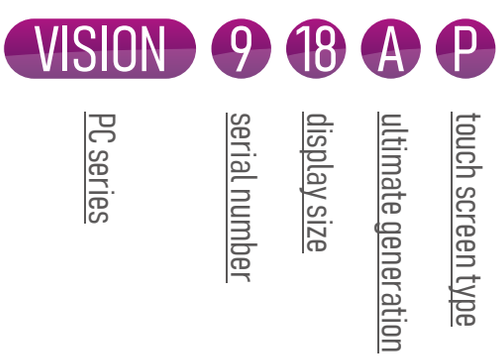
Legenda

Specifics

- (P) (R) Projected Capacitive/Resistive
- (H) Max. Luminance series
- (E) (N) Intel® Baytrail™ E3845 / Celeron™ N2930

9XXA | performance grade HMI

Legenda



Specifics

- (A) 6th Gen. Intel® Core™ i3/i5
- (P) (R) (G) Projected Capacitive/Resistive/Glass
- (F) Full HD (1920x1080)

6XX

VISION 6XX Series

VISION-6XX Series

Fanless Industrial Compact Size - High Brightness HMI

Innovating Fast, Baytrail Solution

- Intel® Baytrail™ E3845/N2930 Processor
- Onboard DDR3L 4/8GB
- Flat Front Panel Design Meets IP66
- Aluminum Die-Casting Chassis
- Easily Accessible Storage Design

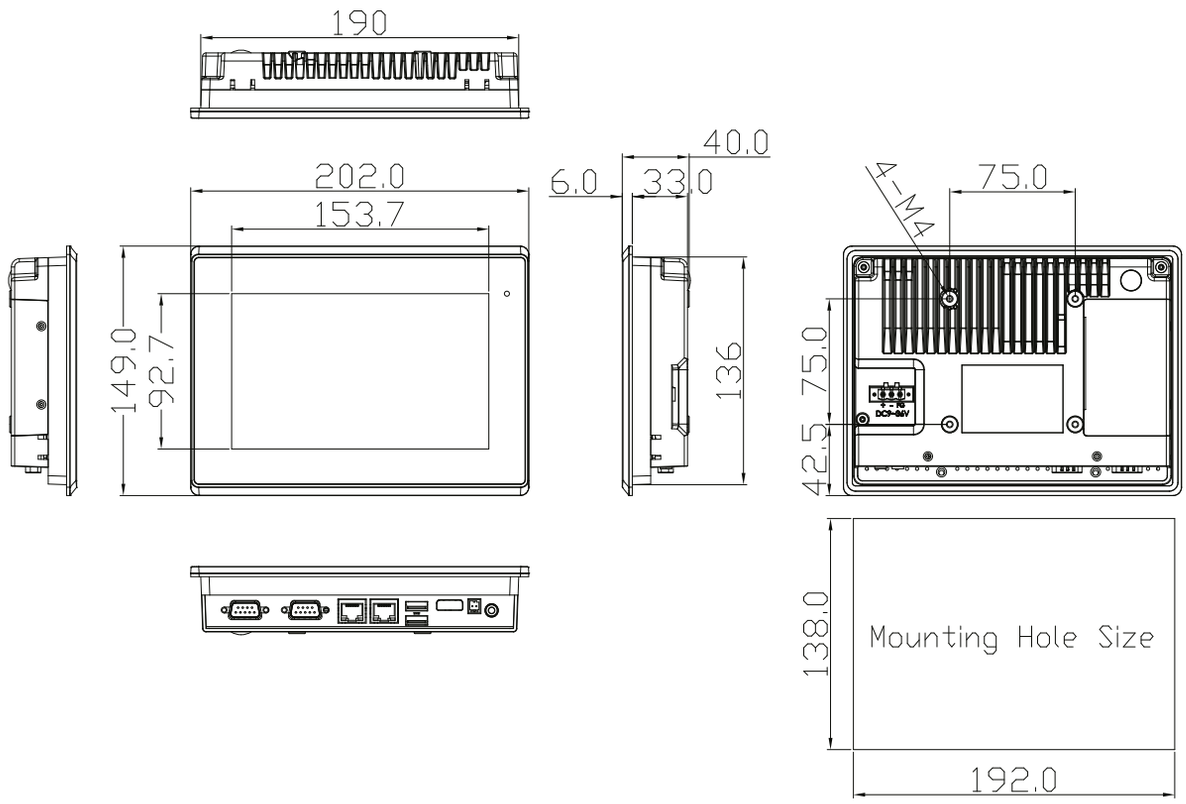
VISION 6XX Series

Model Name	VISION-607	VISION-608	VISION-610	VISION-612
System				
Processor	Intel® Atom™ E3845 Processor (2M Cache, 1.91 GHz) / Intel® Celeron™ N2930 Processor (2M Cache, 1.83 GHz)			
System Chipset	SoC			
System Memory	Onboard DDR3L SDRAM 4/8GB (optional)			
External I/O				
USB	2 x USB 3.0 type A			
Serial/Parallel	1x RS-232/422/485 DB9(COM1), default RS-232; 1x RS-232 DB9(COM2)			
LAN	2x GbE RJ-45			
Audio	1x Line-out			
Power connector	1x 3-pin terminal block connector; x2-pin Power Switch connector			
Storage Space				
HDD	1x 2.5" SATA2 HDD space			
Movable device	1x SD slot			
Expansion				
Onboard expansion bus	1 x mini-PCIe slot(full size)			
Display				
Display type	7" TFT-LCD	8" TFT-LCD	10.1" TFT-LCD	12.1" TFT-LCD
Max. resolution	800 x 480	800 x 600	1280 x 800	800 x 600 / 1024 x 768
Max. color	262K	16.2M	16.2M / 16.7M	16.2M
Luminance(cd/m²)	350 / 1000	350 / 1000	350 / 1000	1000 / 1200
View angle(H°/V°)	140/110 / 140/130	140/125	170/170	140/160 / 170/170
Backlight lifetime(hrs)	40000 / 50000	40000	30000	50000 / 70000
Touch Screen				
Type	Resistive (for R model); Projected Capacitive (for P model)			
Interface	USB			
Light transmission(%)	Resistive: 80% / Projected Capacitive: 90%			
Power				
Power input	DC 9 ~ 36V			
Power Consumption (TYP.)	14W	14.5W	14W	15.2W
Mechanical				
Construction	Aluminum die-casting Chassis			
IP rating	IP66 Compliant Front Bezel			
Mounting	Panel Mount / VESA 75x75		Panel Mount / VESA 100x100	
Dimension (mm)	202 x 149 x 39	231 x 176 x 50	285 x 189 x 48.9	319 x 245 x 51.7
Net weight (Kg)	1.2	1.9	2.0	2.9
Environment				
Operating temperature (°C)	0 ~ 50			
Storage temperature (°C)	-20 ~ 60			
Storage humidity	10 to 90% @ 40°C, non- condensing			
Certification	CE/FCC Class A, CB, UL			
Operating System Support				
Windows® 7 WEC 7 Windows® 8.1 Windows® 10				

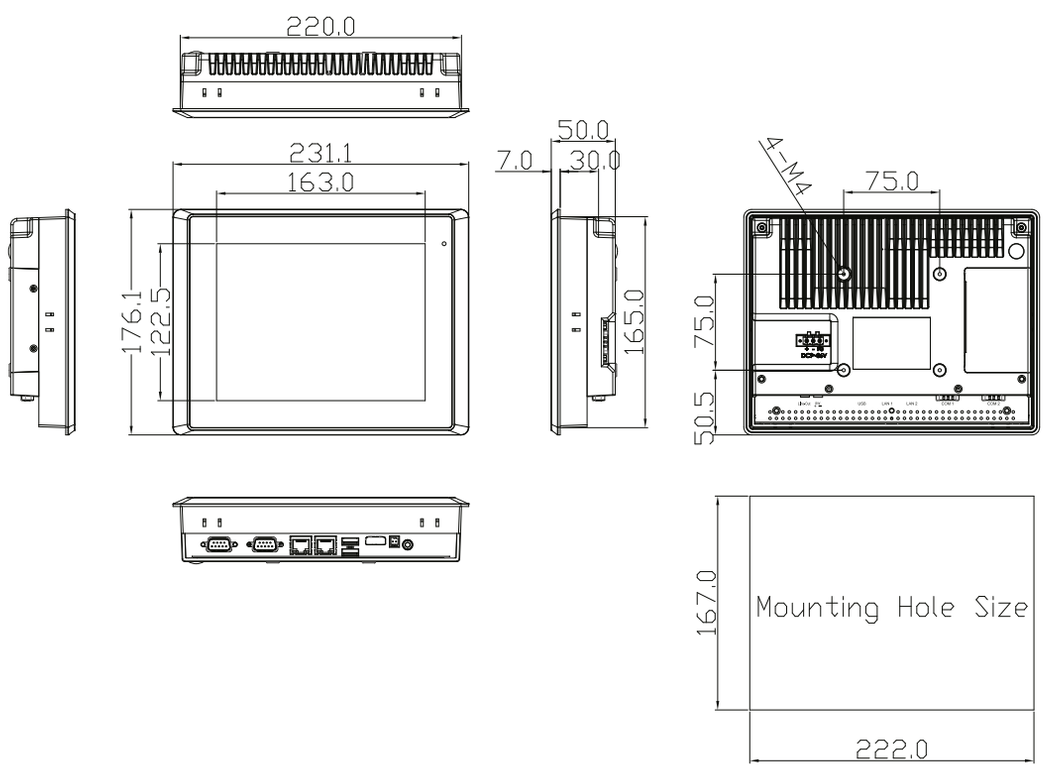
Model Name	VISION-615		VISION-616		VISION-617	
System						
Processor	Intel® Atom™ E3845 Processor (2M Cache, 1.91 GHz) / Intel® Celeron™ N2930 Processor (2M Cache, 1.83 GHz)					
System Chipset	SoC					
System Memory	Onboard DDR3L SDRAM 4/8GB (optional)					
External I/O						
USB	2 x USB 3.0 type A					
Serial/Parallel	1x RS-232/422/485 DB9(COM1), default RS-232; 1x RS-232 DB9(COM2)					
LAN	2x GbE RJ-45					
Audio	1x Line-out					
Power connector	1x 3-pin terminal block connector; x2-pin Power Switch connector					
Storage Space						
HDD	1x 2.5" SATA2 HDD space					
Movable device	1x SD slot					
Expansion						
Onboard expansion bus	1 x mini-PCIe slot(full size)					
Display						
Display type	15" TFT-LCD		15.6" TFT-LCD		17" TFT-LCD	
Max. resolution	1024 x 768		1366 x 768		1280 x 1024	
Max. color	262K	16.2M	16.7M		16.2M	16.7M
Luminance(cd/m²)	450	1000	300	1000	350	1000
View angle(H°/V°)	160/140	160/145	160/160		160/170	170/160
Backlight lifetime(hrs)	30000	50000	50000		30000	50000
Touch Screen						
Type	Resistive (for R model); Projected Capacitive (for P model)					
Interface	USB					
Light transmission(%)	Resistive: 80% / Projected Capacitive: 90%					
Power						
Power input	DC 9 ~ 36V					
Power Consumption (TYP.)	18W		20.3W		25W	
Mechanical						
Construction	Aluminum die-casting Chassis					
IP rating	IP66 Compliant Front Bezel					
Mounting	Panel Mount / VESA 100x100					
Dimension (mm)	410 x 310 x 54.7		412 x 277.5 x 60.4		439 x 348 x 64.8	
Net weight (Kg)	4.4		4.8		5.1	
Environment						
Operating temperature (°C)	0 ~ 50					
Storage temperature (°C)	-20 ~ 60					
Storage humidity	10 to 90% @ 40°C, non- condensing					
Certification	CE/FCC Class A, CB, UL					
Operating System Support						
Windows® 7 WEC 7 Windows® 8.1 Windows® 10						

Model Name	VISION-618	VISION-619	VISION-621
System			
Processor	Intel® Atom™ E3845 Processor (2M Cache, 1.91 GHz) / Intel® Celeron™ N2930 Processor (2M Cache, 1.83 GHz)		
System Chipset	SoC		
System Memory	Onboard DDR3L SDRAM 4/8GB (optional)		
External I/O			
USB	2 x USB 3.0 type A		
Serial/Parallel	1x RS-232/422/485 DB9(COM1), default RS-232; 1x RS-232 DB9(COM2)		
LAN	2x GbE RJ-45		
Audio	1x Line-out		
Power connector	1x 3-pin terminal block connector; x2-pin Power Switch connector		
Storage Space			
HDD	1x 2.5" SATA2 HDD space		
Movable device	1x SD slot		
Expansion			
Onboard expansion bus	1 x mini-PCIe slot(full size)		
Display			
Display type	18.5" TFT-LCD	19" TFT-LCD	21.5" TFT-LCD
Max. resolution	1366 x 768	1280 x 1024	1920 x 1080
Max. color	16.7M	16.7M	16.7M
Luminance(cd/m²)	300 / 1000	250 / 800	300 / 1000
View angle(H°/V°)	170/160	178/178 / 170/160	178/178
Backlight lifetime(hrs)	50000	30000 / 50000	30000
Touch Screen			
Type	Resistive (for R model); Projected Capacitive (for P model)		
Interface	USB		
Light transmission(%)	Resistive: 80% / Projected Capacitive: 90%		
Power			
Power input	DC 9 ~ 36V		
Power Consumption (TYP.)	30W		26.7W
Mechanical			
Construction	Aluminum die-casting Chassis		
IP rating	IP66 Compliant Front Bezel		
Mounting	Panel Mount / VESA 100x100		
Dimension (mm)	499.6 x 314.6 x 72	468 x 380 x 64.8	557 x 362 x 64.8
Net weight (Kg)	5.9		7.9
Environment			
Operating temperature (°C)	0 ~ 50		
Storage temperature (°C)	-20 ~ 60		
Storage humidity	10 to 90% @ 40°C, non- condensing		
Certification	CE/FCC Class A, CB, UL		
Operating System Support			
Windows® 7 WEC 7 Windows® 8.1 Windows® 10			

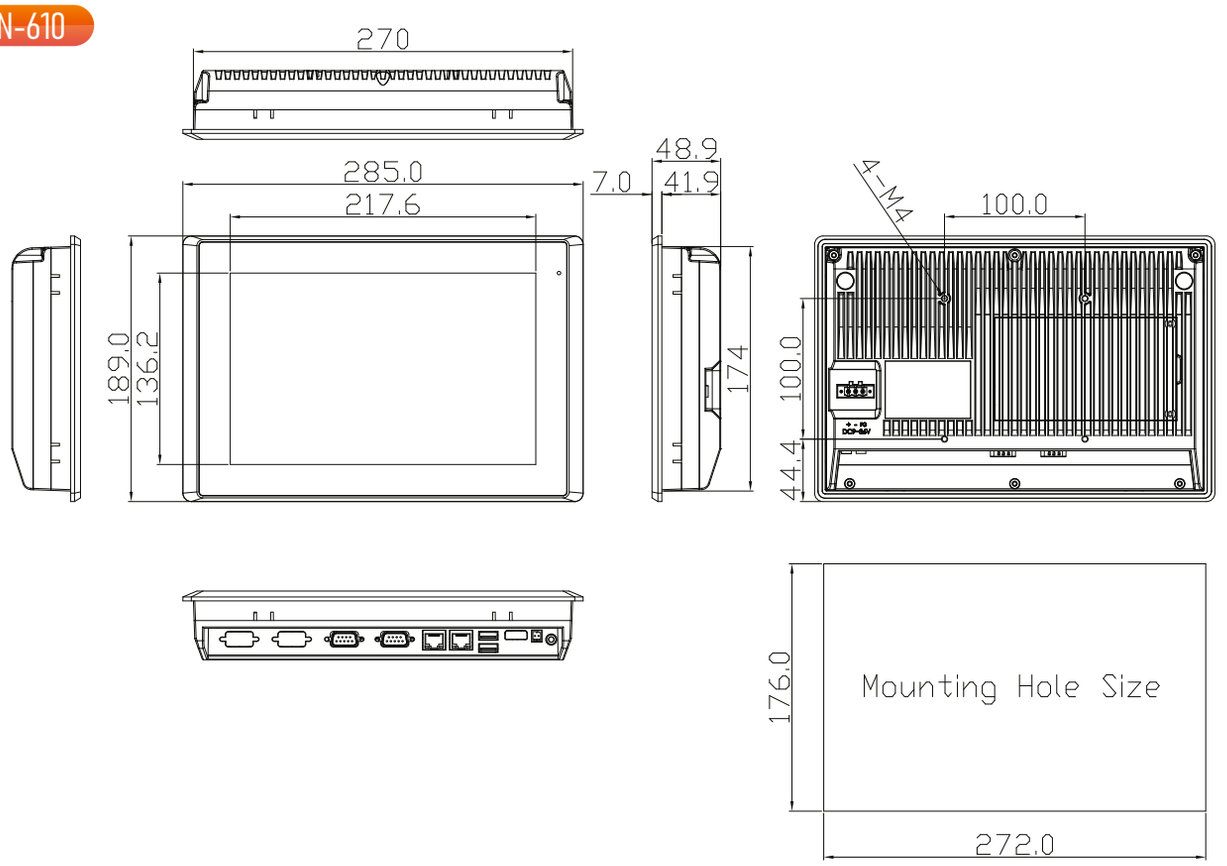
VISION-607



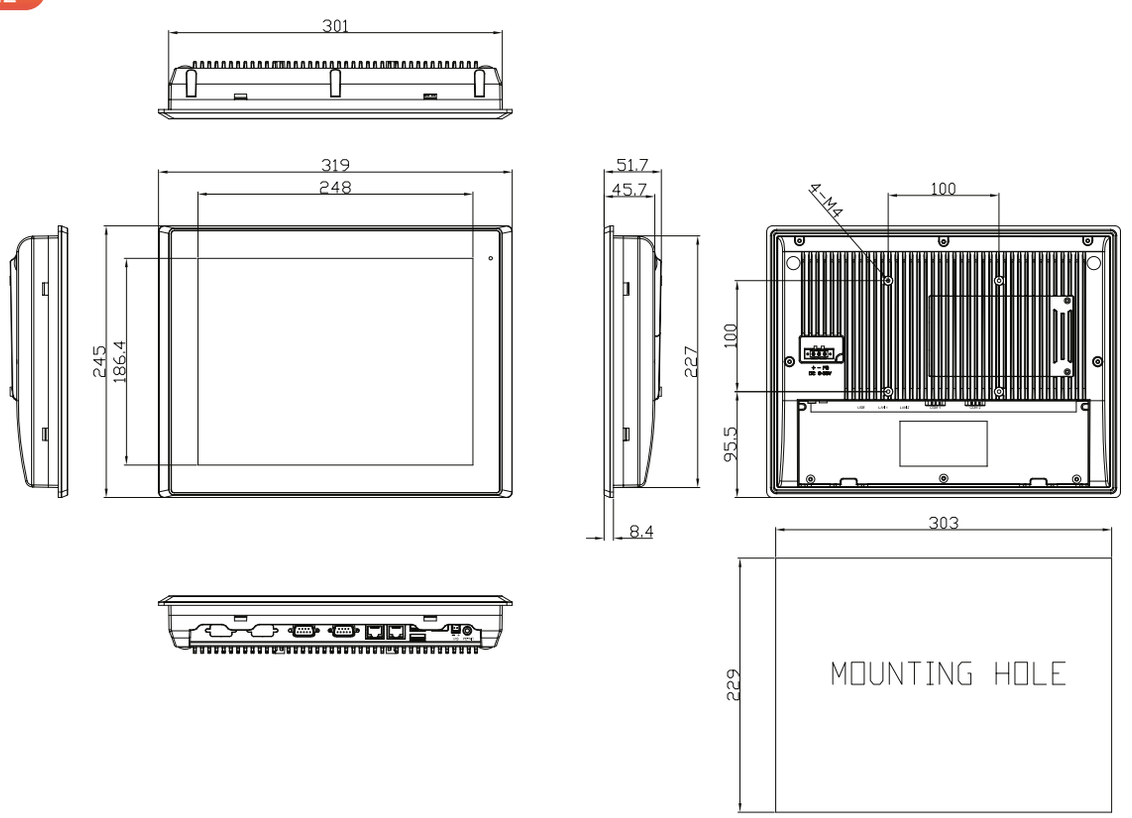
VISION-608



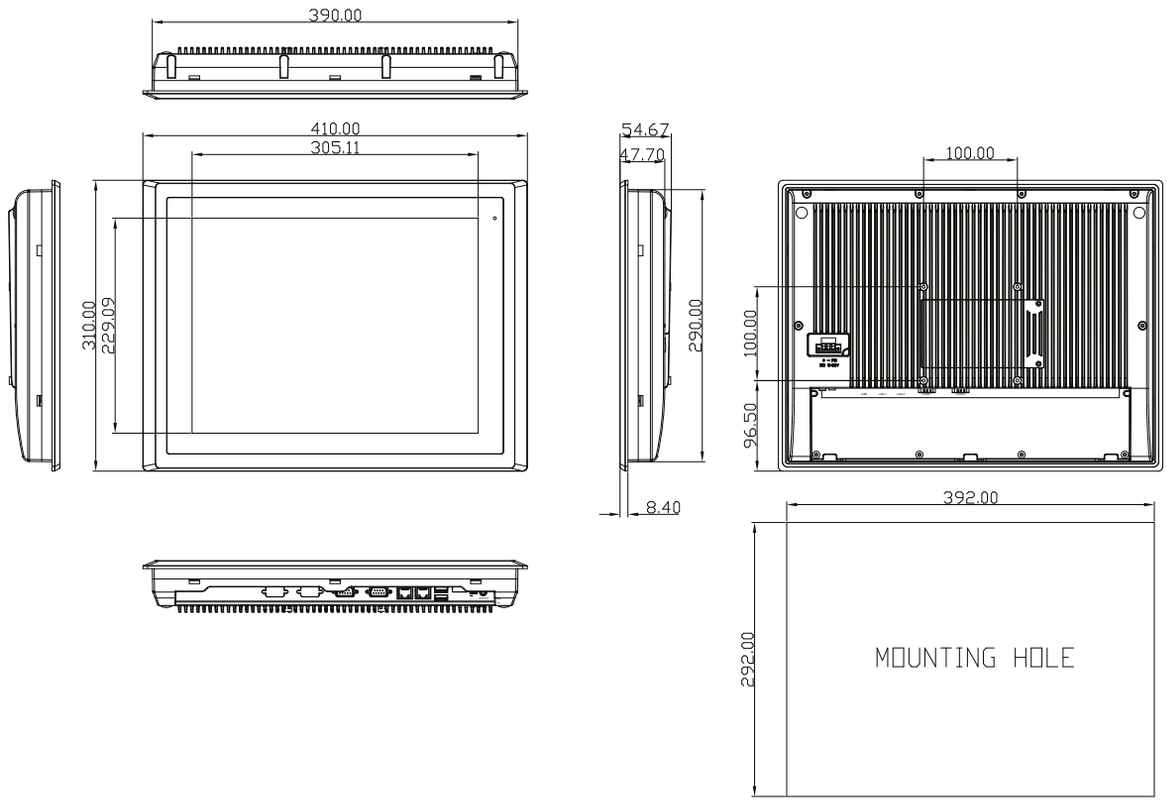
VISION-610



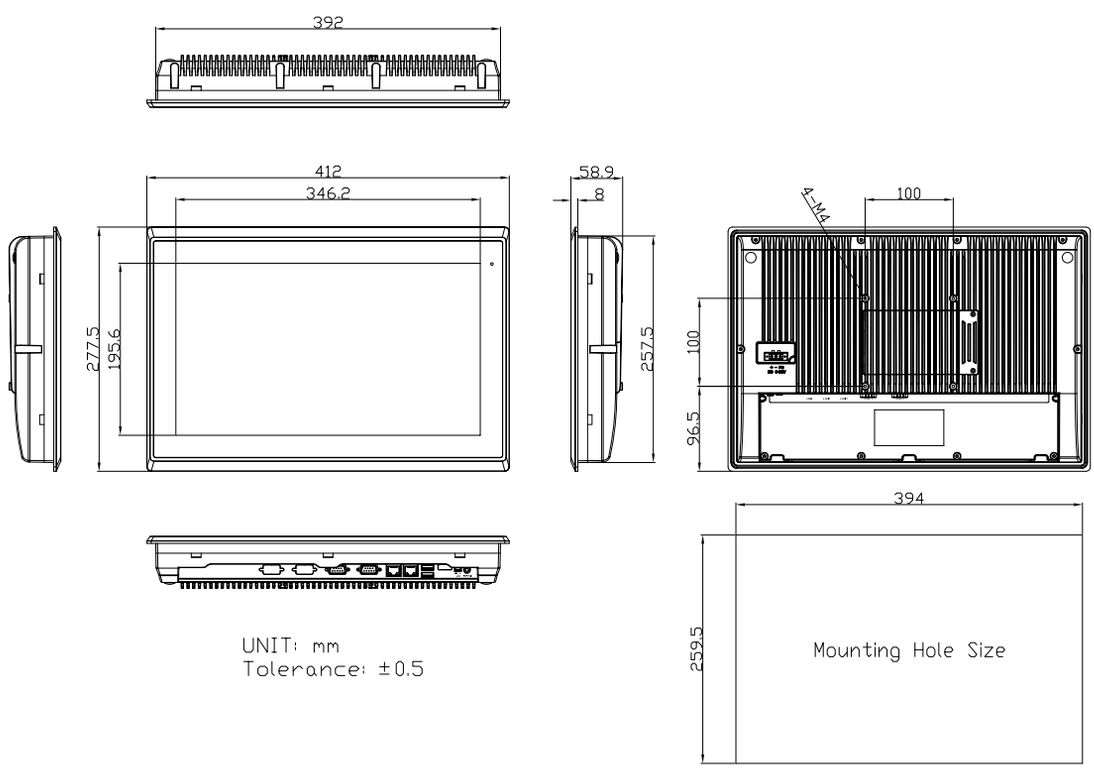
VISION-612



VISION-615

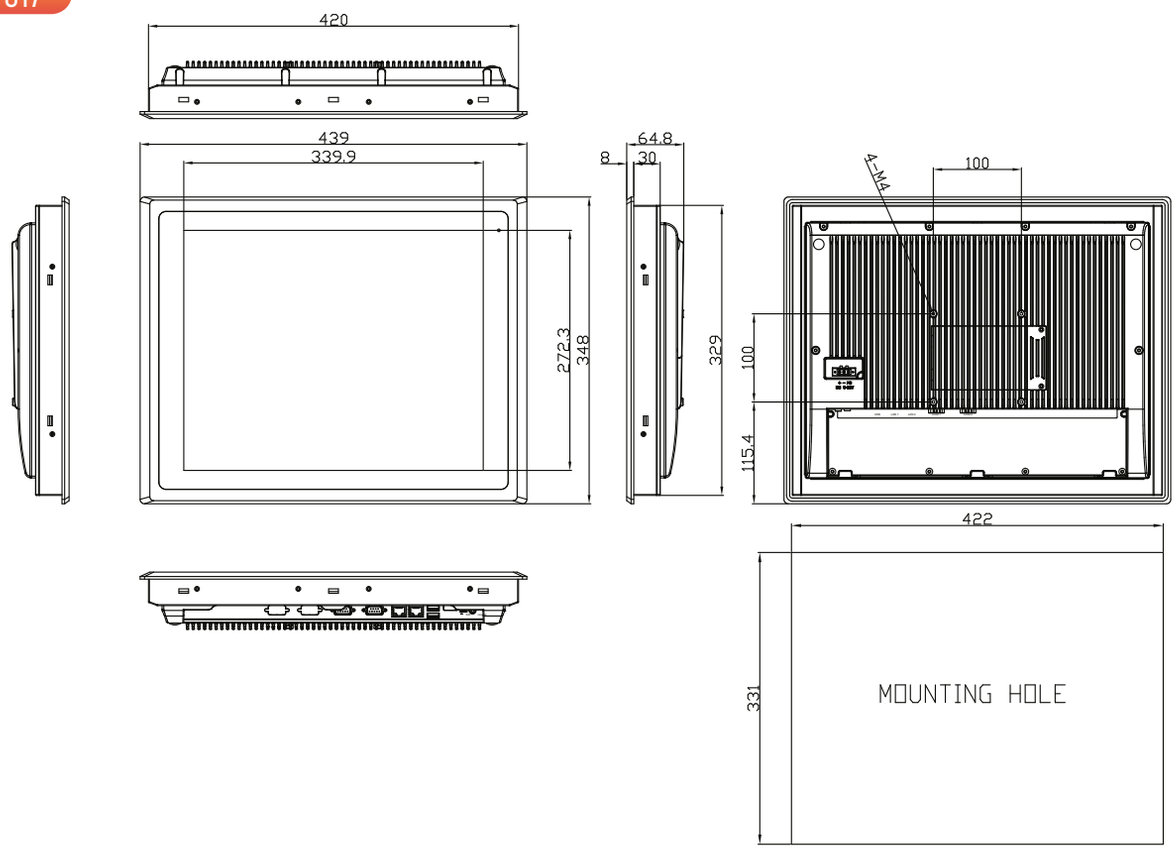


VISION-616

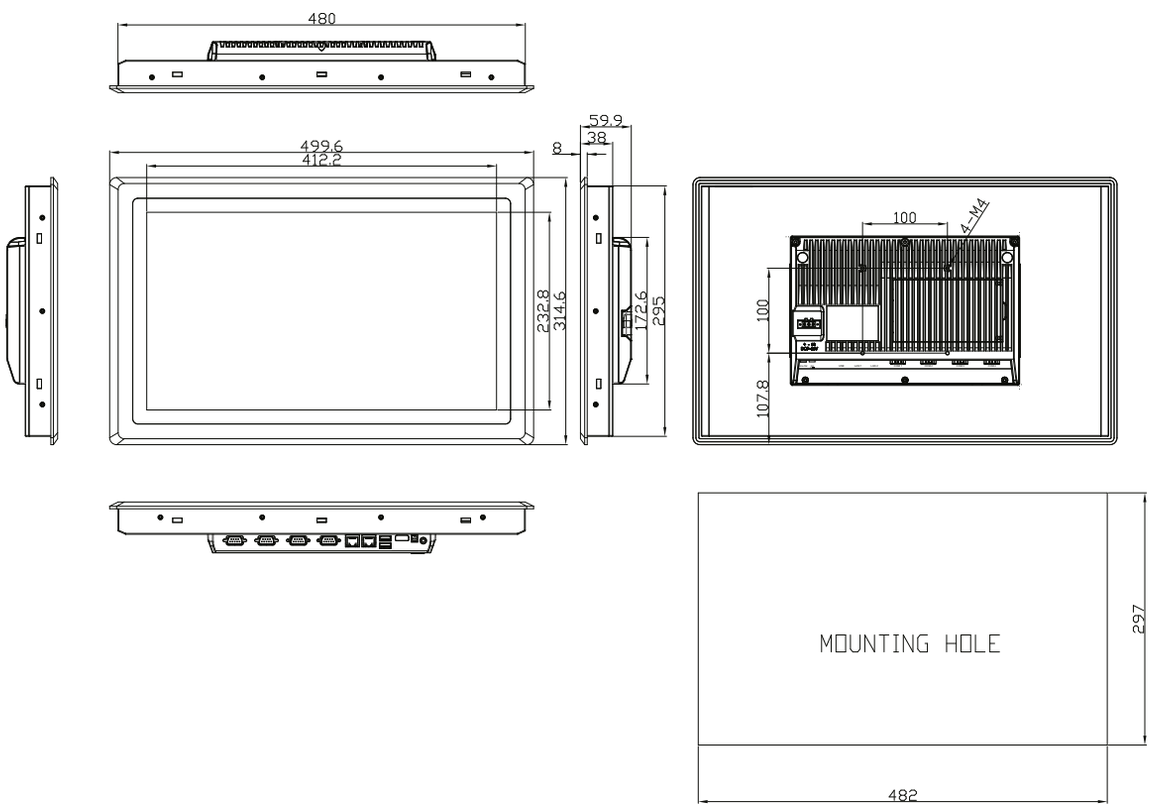


UNIT: mm
Tolerance: ±0.5

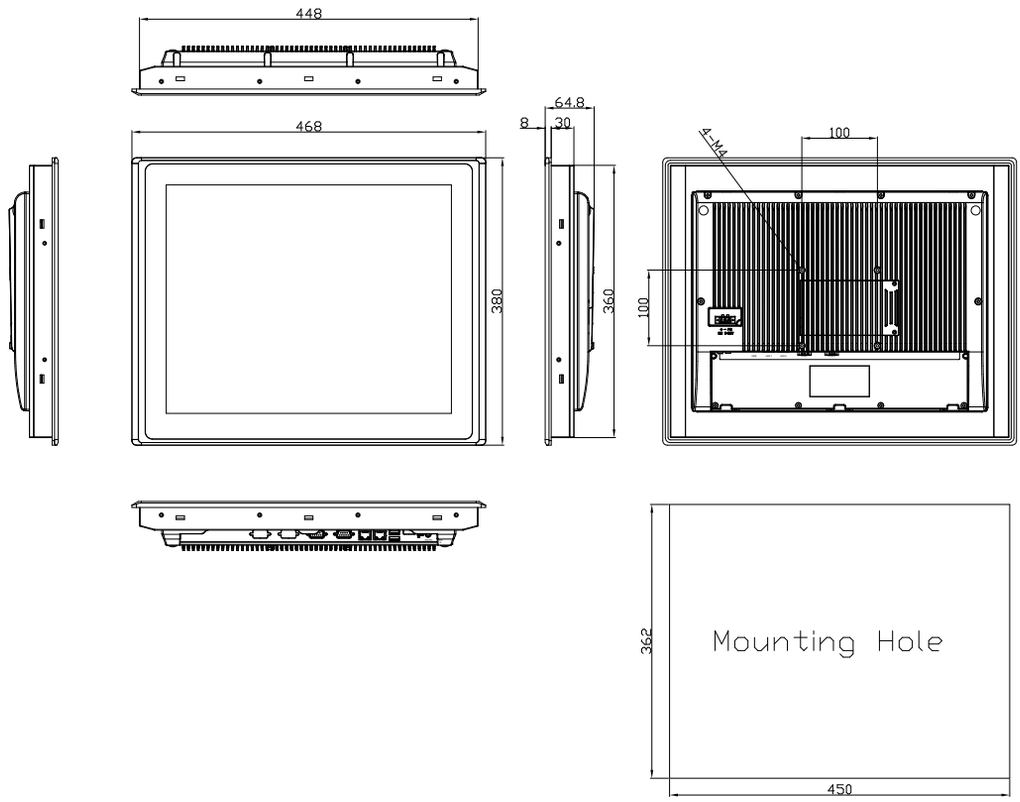
VISION-617



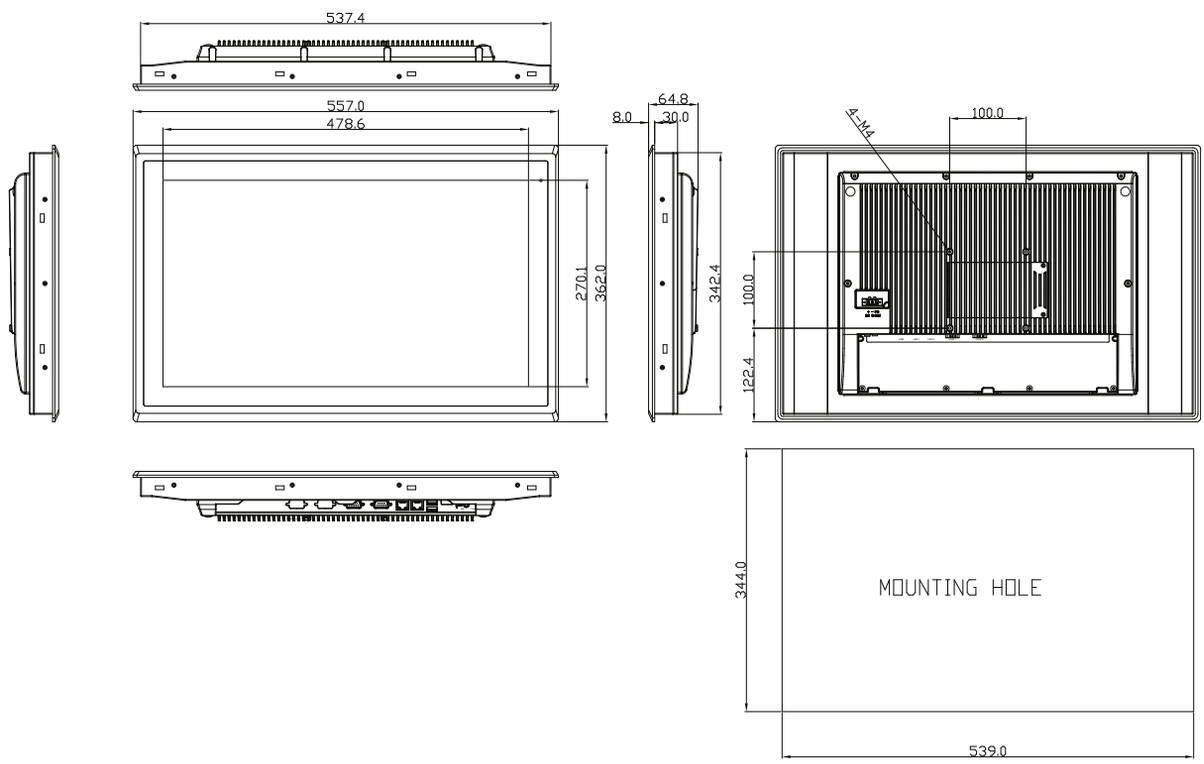
VISION-618



VISION-619



VISION-621



9XXA

VISION-9XXA Series

Performance Grade HMI

Intel® Skylake™ Platform Fanless HMI

VISION 9XXA Series

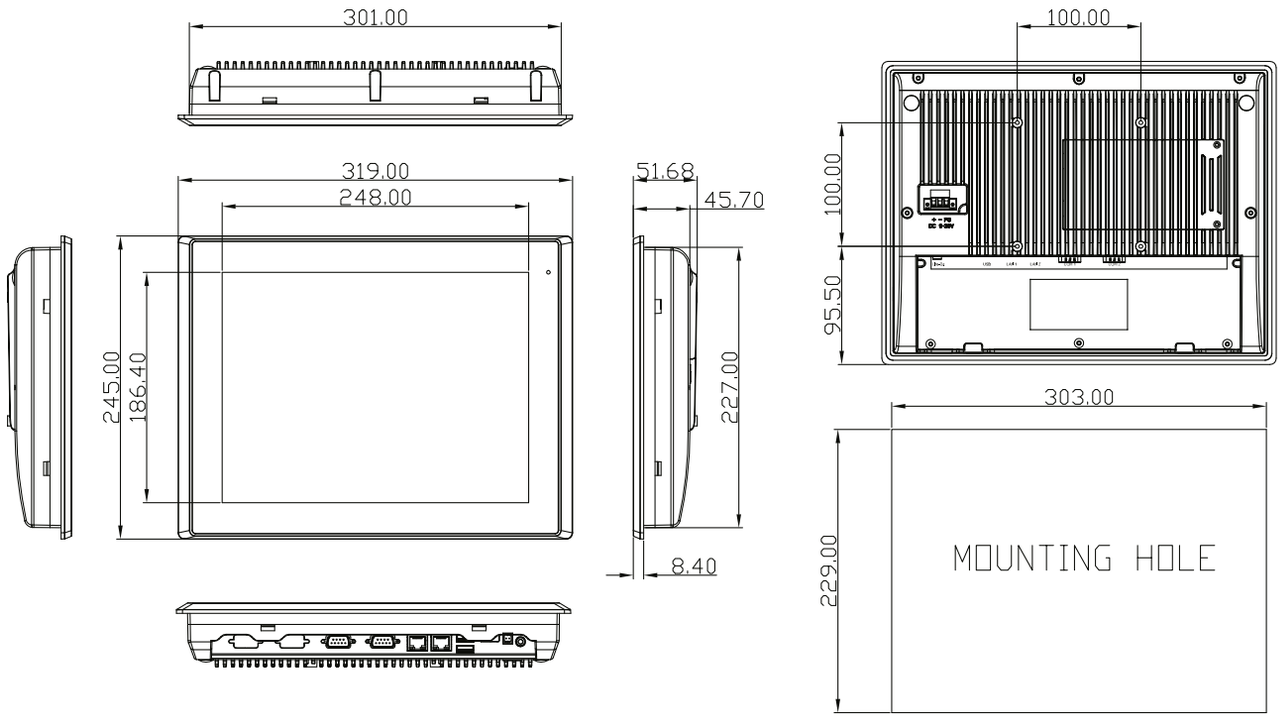
- 6th Gen. Intel® Core™ i5-6300U/i3-6100U
- Single Channel DDR4 SO-DIMM 16GB
- Flat Front Panel Design Meets IP66
- Aluminum Die-Casting Chassis
- Easily Accessible Storage Design

Model Name	VISION-912A		VISION-915A	VISION-916A
System				
Processor	Onboard 6th Gen. Intel® Core™ i3-6100U Processor (3M Cache, 2.30 GHz) / Intel® Core™ i5-6300U Processor (3M Cache, 2.30 GHz)			
System Chipset	SoC			
System Memory	1x 260-pin SO-DIMM up to 16GB DDR4 2133MHz			
External I/O				
USB	2 x USB 3.0 type A			
Serial/Parallel	1x RS-232/422/485 DB9(COM1), default RS-232; 1x RS-232 DB9(COM2)			
LAN	2x GbE RJ-45			
Audio	1x Line-out			
Power connector	1x 3-pin terminal block connector; x2-pin Power Switch connector			
Storage Space				
HDD	1x 2.5" SATA3 HDD space			
Movable device	None			
Expansion				
Onboard expansion bus	1 x mini-PCIe slot(full size)			
Display				
Display type	12.1" TFT-LCD		15" TFT-LCD	15.6" TFT-LCD
Max. resolution	800 x 600	1024 x 768	1024 x 768	1366 x 768
Max. color	16.2M		262K	16.7M
Luminance(cd/m²)	450	500	420	300
View angle(H°/V°)	160/150	160/140	160/160	160/160
Backlight lifetime(hrs)	50000	30000	30000	50000
Touch Screen				
Type	Resistive (for AR model); Projected Capacitive (for AP model); Glass (for AG model)			
Interface	USB			
Light transmission(%)	Resistive: 80% / Projected Capacitive: 90%			
Power				
Power input	DC 9 ~ 36V			
Power Consumption (TYP.)	44W		42W	52W
Mechanical				
Construction	Aluminum die-casting Chassis			
IP rating	IP66 Compliant Front Bezel			
Mounting	Panel Mount / VESA 100x100			
Dimension (mm)	319 x 245 x 51.7		410 x 310 x 54.7	412 x 277.5 x 58.9
Net weight (Kg)	2.6		4.4	4.5
Environment				
Operating temperature (°C)	0 ~ 50			
Storage temperature (°C)	-20 ~ 60			
Storage humidity	10 to 90% @ 40°C, non- condensing			
Certification	CE/FCC Class A			
Operating System Support				
Windows® 7 64bit Windows® 8.1 64bit Windows® 10 64bit				

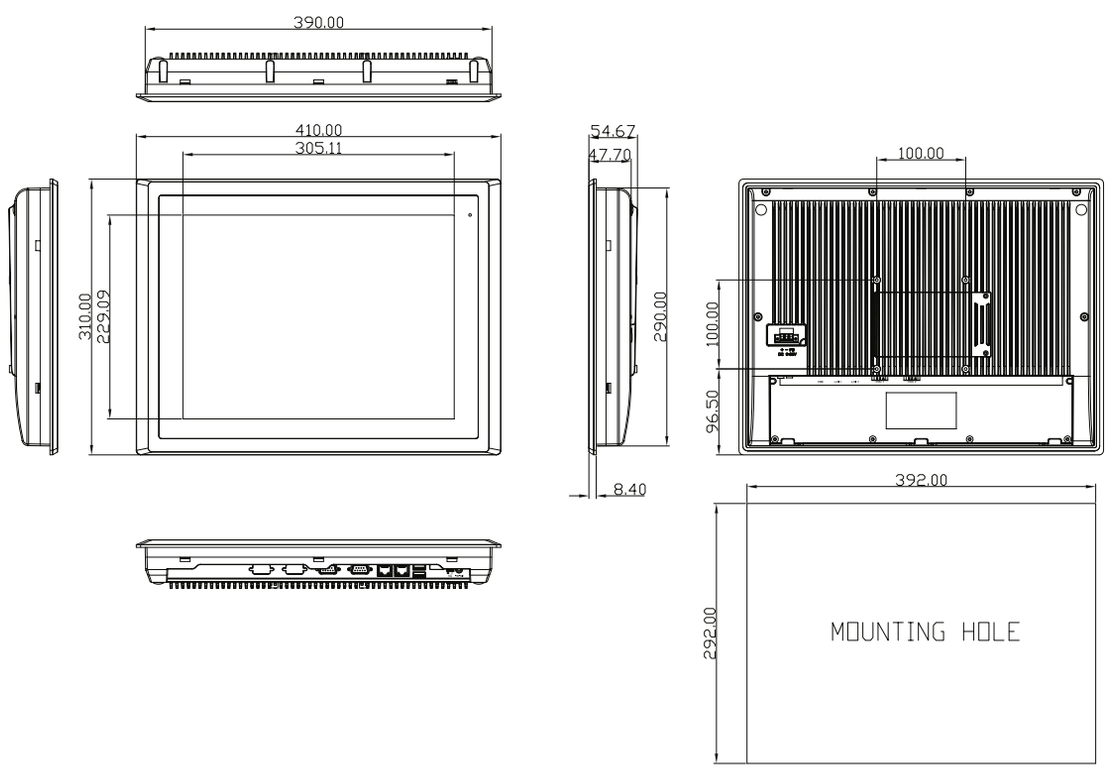
Model Name	VISION-917A	VISION-918A	VISION-919A
System			
Processor	Onboard 6th Gen. Intel® Core™ i3-6100U Processor (3M Cache, 2.30 GHz) / Intel® Core™ i5-6300U Processor (3M Cache, 2.30 GHz)		
System Chipset	SoC		
System Memory	1x 260-pin SO-DIMM up to 16GB DDR4 2133MHz		
External I/O			
USB	2 x USB 3.0 type A		
Serial/Parallel	1x RS-232/422/485 DB9(COM1), default RS-232; 1x RS-232 DB9(COM2)		
LAN	2x GbE RJ-45		
Audio	1x Line-out		
Power connector	1x 3-pin terminal block connector; x2-pin Power Switch connector		
Storage Space			
HDD	1x 2.5" SATA3 HDD space		
Movable device	None		
Expansion			
Onboard expansion bus	1 x mini-PCIe slot (full size)		
Display			
Display type	17" TFT-LCD	18.5" TFT-LCD	19" TFT-LCD
Max. resolution	1280 x 1024	1366 x 768	1280 x 1024
Max. color	16.7M	16.7M	16.7M
Luminance(cd/m²)	350	300	350
View angle(H°/V°)	170/170	160/170	170/165
Backlight lifetime(hrs)	50000	50000	50000
Touch Screen			
Type	Resistive (for AR model); Projected Capacitive (for AP model); Glass (for AG model)		
Interface	USB		
Light transmission(%)	Resistive: 80% / Projected Capacitive: 90%		
Power			
Power input	DC 9 ~ 36V		
Power Consumption (TYP.)	50W	60W	60W
Mechanical			
Construction	Aluminum die-casting Chassis		
IP rating	IP66 Compliant Front Bezel		
Mounting	Panel Mount / VESA 100x100		
Dimension (mm)	439 x 348 x 64.8	499.6 x 314.6 x 65.4	468 x 380 x 64.8
Net weight (Kg)	6.25	6.7	7.3
Environment			
Operating temperature (°C)	0 ~ 50		
Storage temperature (°C)	-20 ~ 60		
Storage humidity	10 to 90% @ 40°C, non- condensing		
Certification	CE/FCC Class A		
Operating System Support			
Windows® 7 64bit Windows® 8.1 64bit Windows® 10 64bit			

Model Name	VISION-921A	VISION-932A
System		
Processor	Onboard 6th Gen. Intel® Core™ i3-6100U Processor (3M Cache, 2.30 GHz) / Intel® Core™ i5-6300U Processor (3M Cache, 2.30 GHz)	
System Chipset	SoC	
System Memory	1x 260-pin SO-DIMM up to 16GB DDR4 2133MHz	
External I/O		
USB	2 x USB 3.0 type A	
Serial/Parallel	1x RS-232/422/485 DB9(COM1), default RS-232; 1x RS-232 DB9(COM2)	
LAN	2x GbE RJ-45	
Audio	1x Line-out	
Power connector	1x 3-pin terminal block connector; x2-pin Power Switch connector	1x AC Power Input; 1x 2-pin Power Switch connector
Storage Space		
HDD	1x 2.5" SATA3 HDD space	
Movable device	None	
Expansion		
Onboard expansion bus	1 x mini-PCIe slot (full size)	
Display		
Display type	21.5" TFT-LCD	32" TFT-LCD
Max. resolution	1920 x 1080	1920 x 1080
Max. color	16.7M	16.7M
Luminance(cd/m²)	300	500
View angle(H°/V°)	178/178	178/178
Backlight lifetime(hrs)	30000	50000
Touch Screen		
Type	Resistive (for AR model); Projected Capacitive (for AP model); Glass (for AG model)	Projected Capacitive
Interface	USB	
Light transmission(%)	Resistive: 80% / Projected Capacitive: 90%	90%
Power		
Power input	DC 9 ~ 36V	
Power Consumption (TYP.)	53W	80W
Mechanical		
Construction	Aluminum die-casting Chassis & Front Bezel	
IP rating	IP66 Compliant Front Bezel	
Mounting	Panel Mount / VESA 100x100	Panel Mount / VESA 200x200
Dimension (mm)	557 x 362 x 64.8	810 x 490 x 65
Net weight (Kg)	7.7	17.5
Environment		
Operating temperature (°C)	0 ~ 50	
Storage temperature (°C)	-20 ~ 60	
Storage humidity	10 to 90% @ 40°C, non- condensing	
Certification	CE/FCC Class A	
Operating System Support		
Windows® 7 64bit Windows® 8.1 64bit Windows® 10 64bit		

VISION-912A



VISION-915A



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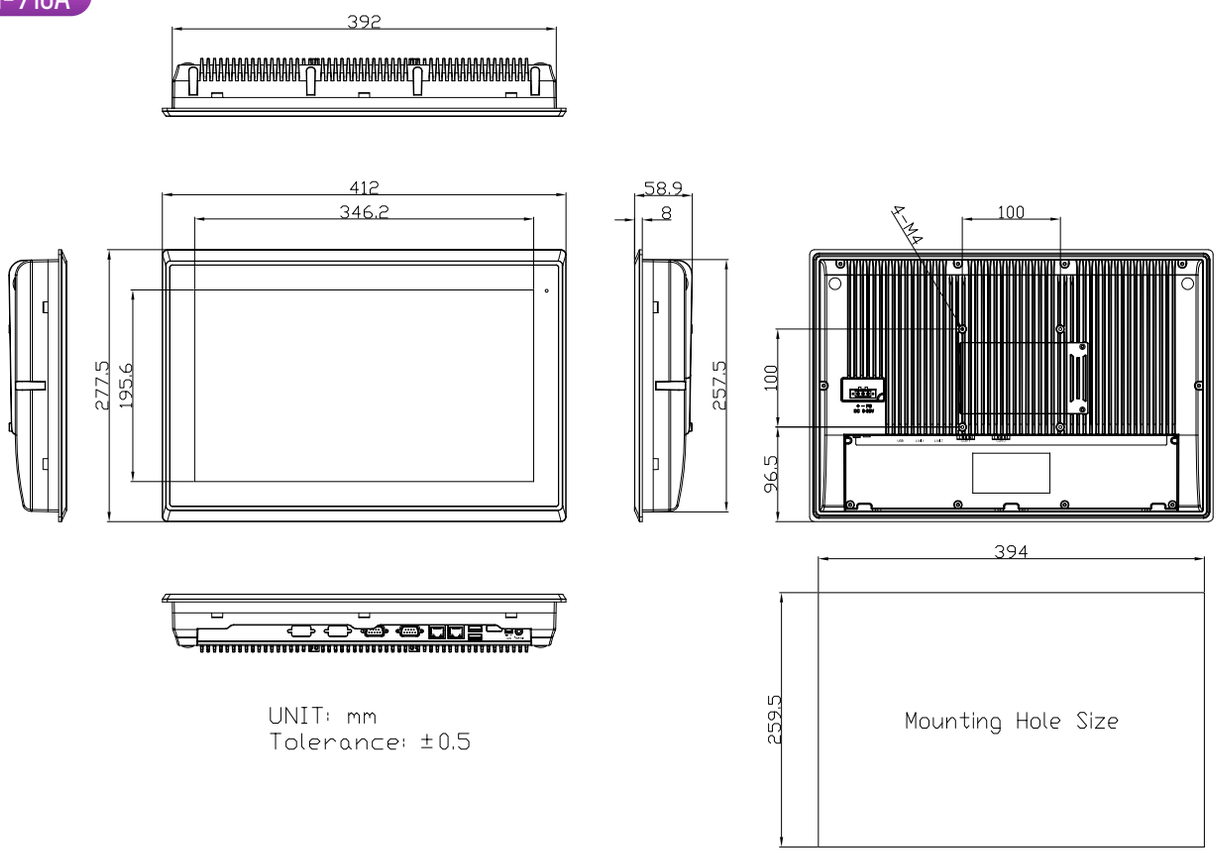

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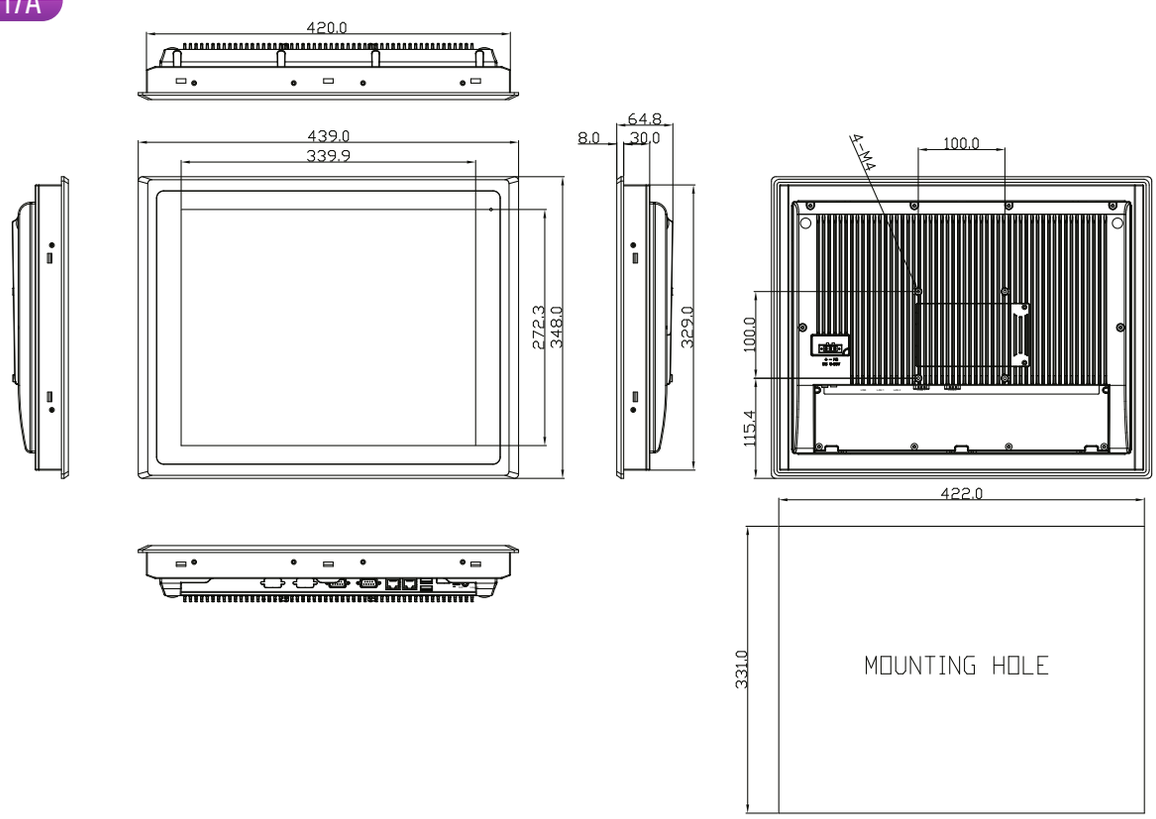

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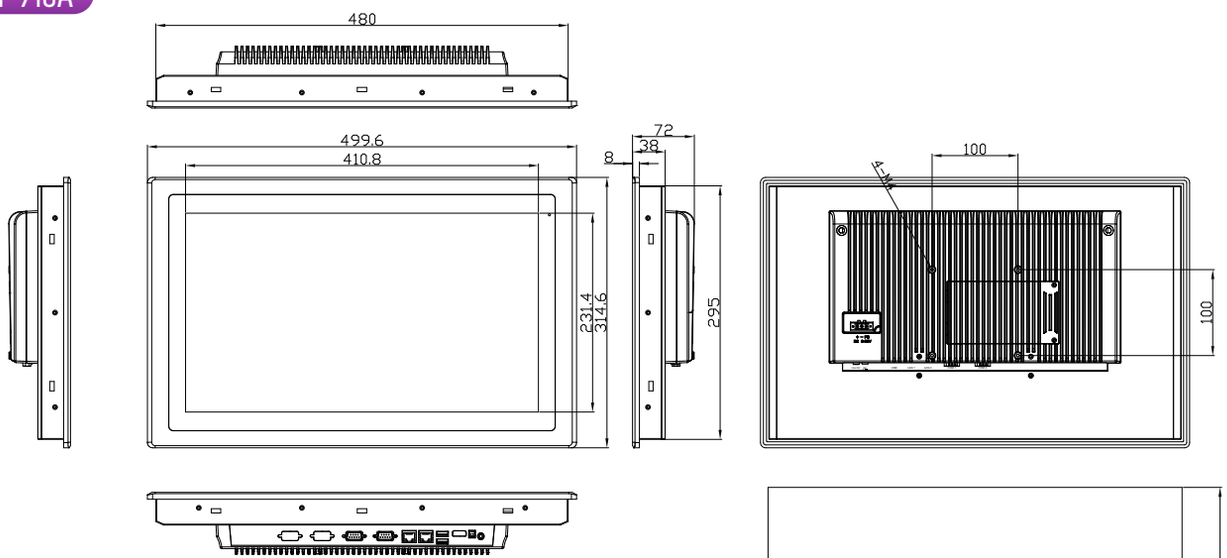

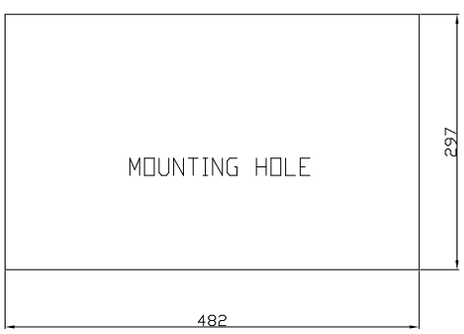

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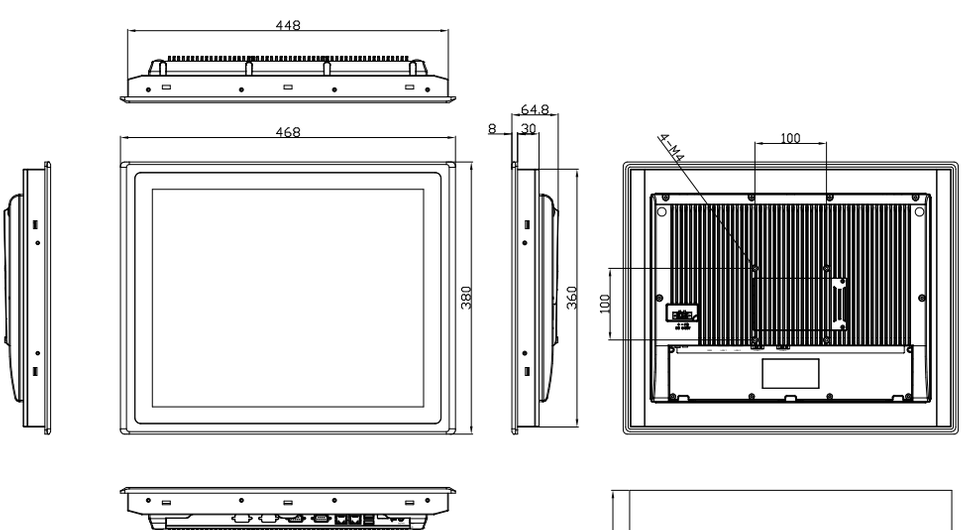

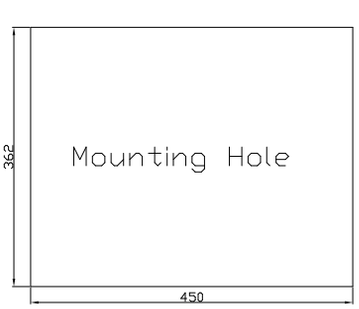

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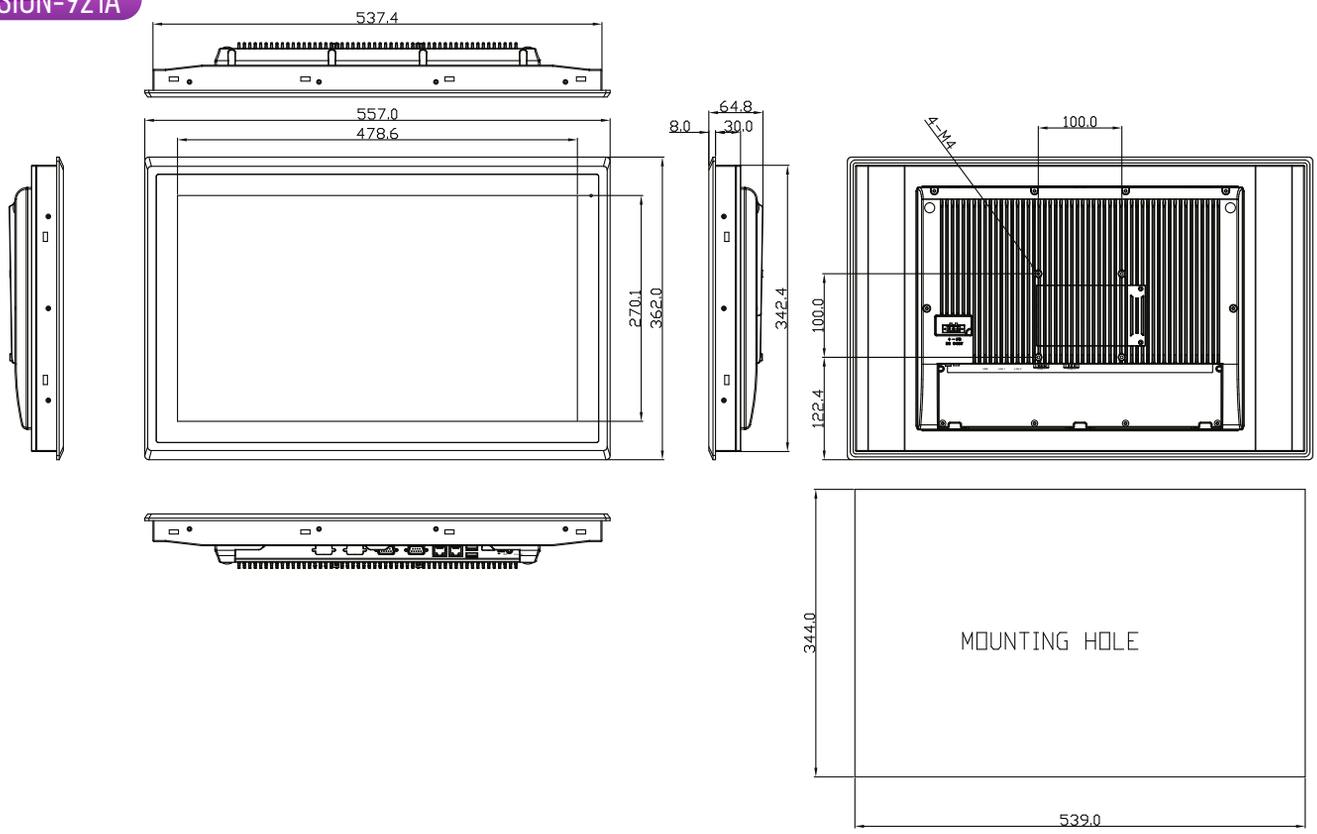
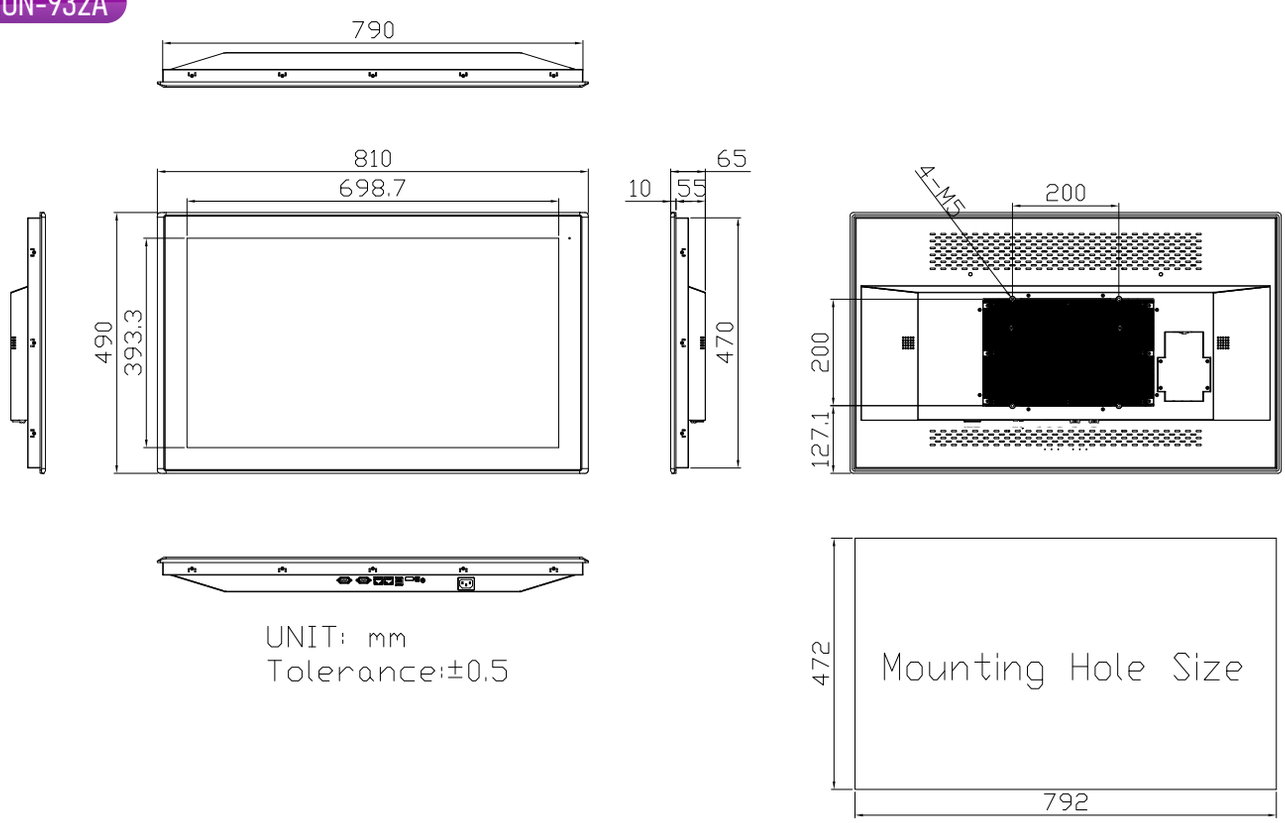
VISION-921A



VISION-932A



UNIT: mm
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