




iCOMAC6100

Panel PC for industrial environment



- ✓ Three sizes available 15 ", 17" and 19 "
- ✓ Chassis designed for industrial environments
- ✓ Front panel with IP65 protection rating and protected USB port
- ✓ Fanless cooling system
- ✓ No acoustic impact, 0dBA emissions with SSD storage
- ✓ High availability of I/O ports: RS232/422/485, Gb LAN, USB 2.0/3.0...
- ✓ High performance computing thanks to Intel® Core™ processors
- ✓ Available with UPS with wide tolerance input voltage

	NON STOP 24/7	LCD UP TO 19" LED	Front IP65	Front USB IP65	0~45°C	RESISTIVE TOUCH	Dual display support
WIDE POWER DC-IN 24V up to 15~36V	DC UPS INPUT 6-30V DC	Up to Skylake CPU 6 th Gen Intel® Core™	WATCHDOG 1-255s	0dB Emission	Fanless	RoHS	CE



Display and touchscreen features

15"

Panel type	a-Si TFT active matrix LCD
Size	15"
Aspect Ratio	4:3
Pixel HxV	1024 x 768
Pixel Pitch	0.297x0.297mm
Color	16.7M
Contrast ratio	700:1
Brightness	400 cd/m ²
Response time	5ms
Viewing angle	Horizontal 160° - Vertical 140°
Power consumption	12W (only display & touch unit)

17"

Panel type	a-Si TFT active matrix LCD
Size	17"
Aspect Ratio	5:4
Pixel HxV	1280X1024
Pixel Pitch	0.264x0.264mm
Color	16.7M
Contrast ratio	800:1
Brightness	350 cd/m ²
Response time	30ms
Viewing angle	Horizontal 160° - Vertical 140°
Power consumption	22W (only display & touch unit)

19"

Panel type	a-Si TFT active matrix LCD
Size	19"
Aspect Ratio	5:4
Pixel HxV	1280X1024
Pixel Pitch	0.294x0.294mm
Color	16.7M
Contrast ratio	1000:1
Brightness	350 cd/m ²
Response time	10ms
Viewing angle	Horizontal 170° - Vertical 160°
Power consumption	17W (only display & touch unit)

Common features

Touchscreen	Type	Resistive 5 wires
	Interface	USB
Controls	Indicator	1 x Front power LED
Input connector	USB	1 x Front USB 2.0
Mechanical	Fixing method	Panel mount
	Dimensions	See next pages



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System	Processor	Intel® Celeron® Processor J1900 4 Core, 4 Thread, 2M Cache, up to 2.42 GHz
	Internal expansion slots	1 x Mini PCIe (half/full size, signals: USB,PCIe,mSATA)
Memory	Max expansion	8GB
	Type	DDR3L 1333MHz DRAM device technologies: 1Gb, 2Gb and 4Gb DDR3L DRAM technologies are supported for x8 and x16 devices, unbuffered, non-ECC
	Slot	2 (dual channel)
Back I/O interfaces	Serial	1 x RS232/422/485 (RS232 and/or power) 2 x RS232 optional
	USB	1 x USB 3.0/2.0/1.1 4* x USB 2.0/1.1 *3 with UPS Kit
	LAN	2 x RJ45
	Video	1 x DVI-I
	Audio	1 x Jack 3.5mm (Line-Out)
	Power	1 x DC-IN (Phoenix 2P)
	Button	1 x Power switch with power led
	Storage	
Storage	Storage bay	1 x HDD/SSD SATA 2.5"
	HDD/SSD	1 x mSATA SSD
	Controller	SATA 2 3.0Gb/s
Graphics subsystem	Integrated graphics adapter	Intel® HD Graphics
	Supported features	DirectX 11.1, OpenGL 4.0, OpenCL 1.2
	Resolution	DVI-I: 24-bit, up to 1920x1080@60Hz
Audio subsystem	Integrated audio adapter	High Definition Audio (Codec Realtek ALC888)
	Integrated speakers	
Management	Watchdog timer	Software programmable from 1 to 255s
	Wake On Events	WOL (Wake On Lan) Wake by RTC (Wake by date/time) AC power failure recovery
Network subsystem	Integrated LAN adapter	2 x Intel® I210 PCI Express Gigabit Ethernet controller Integrated 10/100/1000 transceiver Fully compliant with : IEEE 802.3, 802.3u, 802.3ab
	Power supply	
Power supply	Input voltage	24V DC (Optional external AC power adapter) Tolerance : From 19V DC to 24V DC
	Power consumption	Average 17W @ 75% stress (only processing unit)
Software	Supported operating system	Windows 7 / 7 Emb. 32bit & 64bit Windows 8.1 / 8.1 Emb. Pro 64bit Windows 10 / 10 IoT Ent. 64bit
	Optional UPS	
Optional UPS	Input voltage	From 6V DC to 30V DC
	Battery type	Li-Ion
	Total capacity	2600mAh
	Charging	3h from 10% to full charge
	Up time	Up to 1h (Estimated with full charge, iCOMAC6100 15" J1900 medium conf, working stress 10%)
Compatibility	iCOMAC6100 Intel® Celeron® J1900 Series	

System	Processor	6th Generation Intel® Core™ i3/i5/i7 TDP MAX 35W - LGA1151 Socket
	Chipset	Intel® H110 Chipset (Intel® GL82H110 PCH)
Memory	Internal expansion slots	1 x Full-size mSATA (USB/SATA) 1 x Half-size miniPCIe (USB/PCIe)
	Max expansion	32GB
	Type	SO-DIMM DDR4 1866/2133MHz
Back I/O interfaces	Slot	2 (dual channel)
	Serial	1 x RS232/422/485 (RS232 and/or power) 2 x RS232 optional
	USB	4 x USB 3.0/2.0/1.1 2 x USB 2.0/1.1
	LAN	2 x RJ45
	Video	1 x DVI-D 1 x HDMI
	Digital I/O (optional)	10P Phoenix connector : 3 x Opto isolated inputs (24V DC) 5 x Opto isolated output (max 400mA @24V DC per pin) 2 x External 24V PSU connection (24V DC & GND)
	Power	1 x DC-IN (Phoenix 2P)
	Button	1 x Power switch
Storage	Storage bay	1 x HDD/SSD SATA 2.5"
	HDD/SSD	1 x mSATA SSD
Graphics subsystem	Controller	SATA 2 3.0Gb/s
	Integrated graphics adapter	Intel® HD Graphics
	Supported features	DirectX 12, OpenGL 5.0, OpenCL 2.1
Management	Resolution	DVI-I: up to 1920x1200@60Hz HDMI: up to 2560x1600@60Hz or 4096x2160@24Hz
	Watchdog timer	Software programmable from 1 to 255s
Network subsystem	Wake On Events	WOL (Wake On Lan) Wake by RTC (Wake by date/time) AC power failure recovery
	Integrated LAN adapter	1 x Intel® I211AT PCIe (10/100/1000Mbps) 1 x Intel® I219V PCIe (10/100/1000Mbps)
Power supply	Input voltage	24V DC (Optional external AC power adapter) Tolerance : From 15V DC to 36V DC
	Power consumption	Average 45W @ 75% stress (only processing unit)
Software	Supported operating system	Windows 7 / 7 Emb. 32bit & 64bit Windows 8.1 / 8.1 Emb. Pro 64bit Windows 10 / 10 IoT Ent. 64bit



Ordering code

Ordering code	Standard Display size	Standard Front panel type	Standard Computing unit	Standard Power Supply	Standard Gb LAN	Standard COM	Optional serial port 2 x COM	Standard USB	Optional Digital I/O 3 x Input / 5 x Output	Optional UPS Wide range 6-30VDC
CNICOMAC610015ARI-00	15"	Anodised aluminum	6th Gen Intel® Core™	15-36V DC	2	1	EKIT-ICOMAC-2XCOM-01	6	EKIT-ICOMAC-DIO01-00	TBD
CNICOMAC610015ARJ-00	15"	Anodised aluminum	Intel® Celeron® J1900	19-24V DC	2	1	EKIT-ICOMAC-2XCOM-00	5	N/A	EKIT-ICOMAC-UPS01-00
CNICOMAC610015IRI-00	15"	Inox 316	6th Gen Intel® Core™	15-36V DC	2	1	EKIT-ICOMAC-2XCOM-01	6	EKIT-ICOMAC-DIO01-00	TBD
CNICOMAC610015IRJ-00	15"	Inox 316	Intel® Celeron® J1900	19-24V DC	2	1	EKIT-ICOMAC-2XCOM-00	5	N/A	EKIT-ICOMAC-UPS01-00
CNICOMAC610017ARI-00	17"	Anodised aluminum	6th Gen Intel® Core™	15-36V DC	2	1	EKIT-ICOMAC-2XCOM-01	6	EKIT-ICOMAC-DIO01-00	TBD
CNICOMAC610017ARJ-00	17"	Anodised aluminum	Intel® Celeron® J1900	19-24V DC	2	1	EKIT-ICOMAC-2XCOM-00	5	N/A	EKIT-ICOMAC-UPS01-00
CNICOMAC610017IRI-00	17"	Inox 316	6th Gen Intel® Core™	15-36V DC	2	1	EKIT-ICOMAC-2XCOM-01	6	EKIT-ICOMAC-DIO01-00	TBD
CNICOMAC610017IRJ-00	17"	Inox 316	Intel® Celeron® J1900	19-24V DC	2	1	EKIT-ICOMAC-2XCOM-00	5	N/A	EKIT-ICOMAC-UPS01-00
CNICOMAC610019ARI-00	19"	Anodised aluminum	6th Gen Intel® Core™	15-36V DC	2	1	EKIT-ICOMAC-2XCOM-01	6	EKIT-ICOMAC-DIO01-00	TBD
CNICOMAC610019ARJ-00	19"	Anodised aluminum	Intel® Celeron® J1900	19-24V DC	2	1	EKIT-ICOMAC-2XCOM-00	5	N/A	EKIT-ICOMAC-UPS01-00
CNICOMAC610019IRI-00	19"	Inox 316	6th Gen Intel® Core™	15-36V DC	2	1	EKIT-ICOMAC-2XCOM-01	6	EKIT-ICOMAC-DIO01-00	TBD
CNICOMAC610019IRJ-00	19"	Inox 316	Intel® Celeron® J1900	19-24V DC	2	1	EKIT-ICOMAC-2XCOM-00	5	N/A	EKIT-ICOMAC-UPS01-00

Ordering code	Optional external AC adapter 19V
All model	EKIT-ICOMAC-DC19V-00

Common features

Mechanical	Fixing method	Panel mount VESA 100
	Dimensions	See next pages
Environment	Operating temp.	0°C ~ +45°C with SSD storage 5°C ~ +45°C with HDD storage
	Non operating temp.	-10°C ~ +60°C
	Relative humidity	20% ~ 90% Not condensed
	IP Grade	Front IP65
Certifications	Reference marks	CE, RoHS
	Directive	Built according to European Directive 2014/30/EU (EMCD), 2014/35/EU (LVD) and 2011/65/EU (RoHS)
Company	Reference standard	UNI EN ISO 9001
Datasheet	Doc. ref.	ZST-4292-00000008-01



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ISO 9001:2008

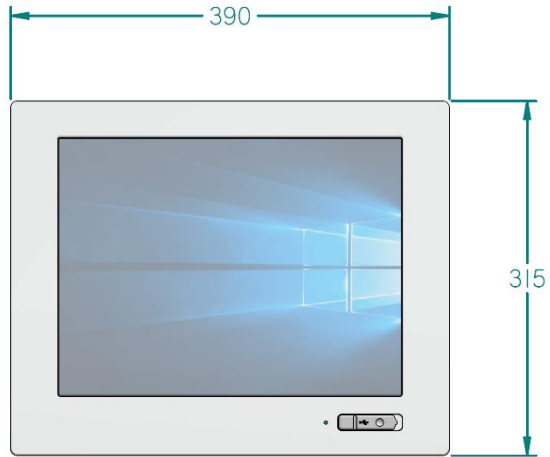
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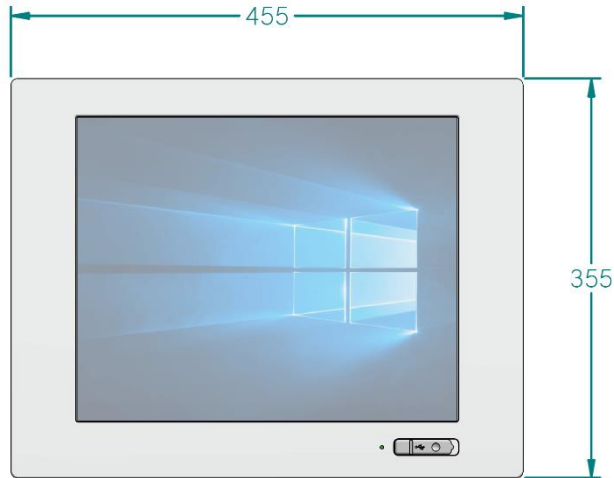


Dimensions for panel mounting

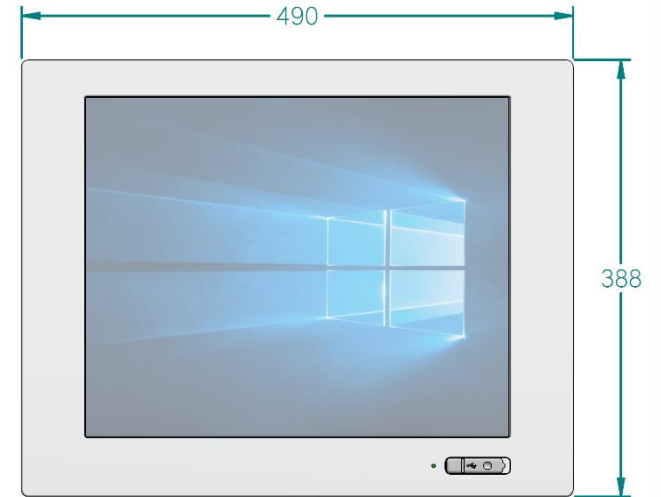
15"



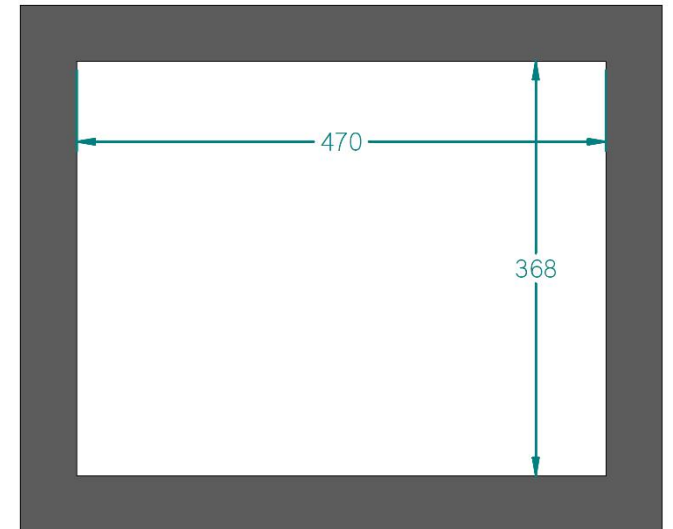
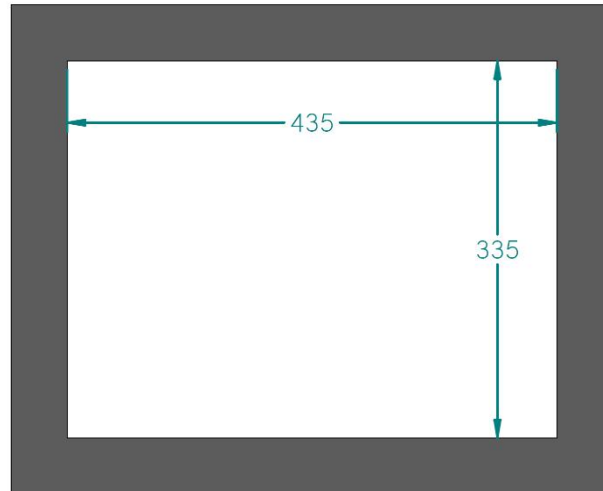
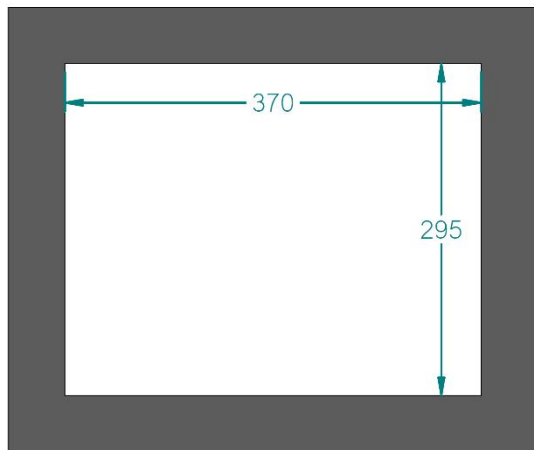
17"



19"

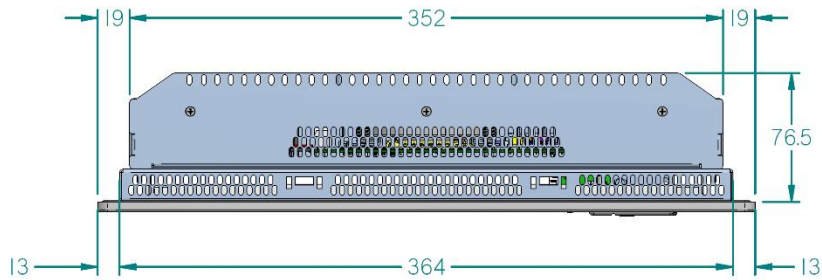
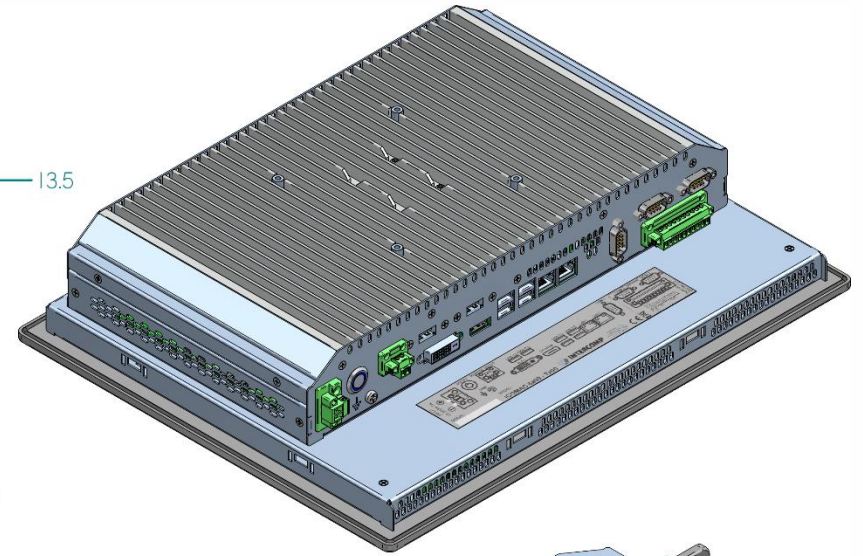
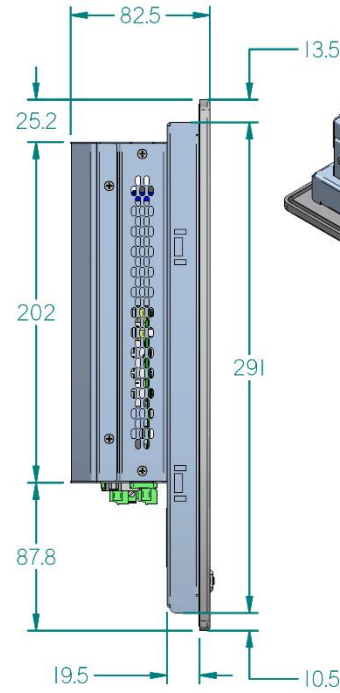
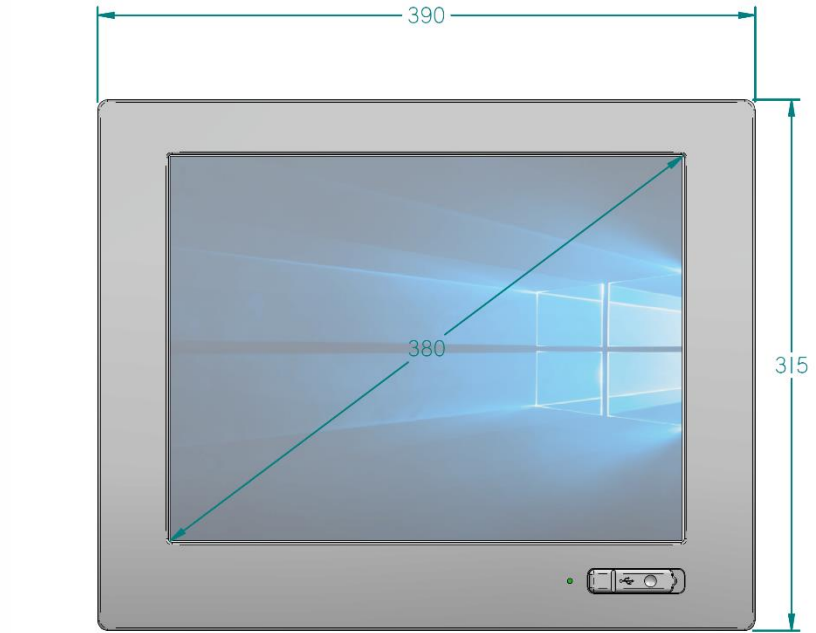


Required panel hole





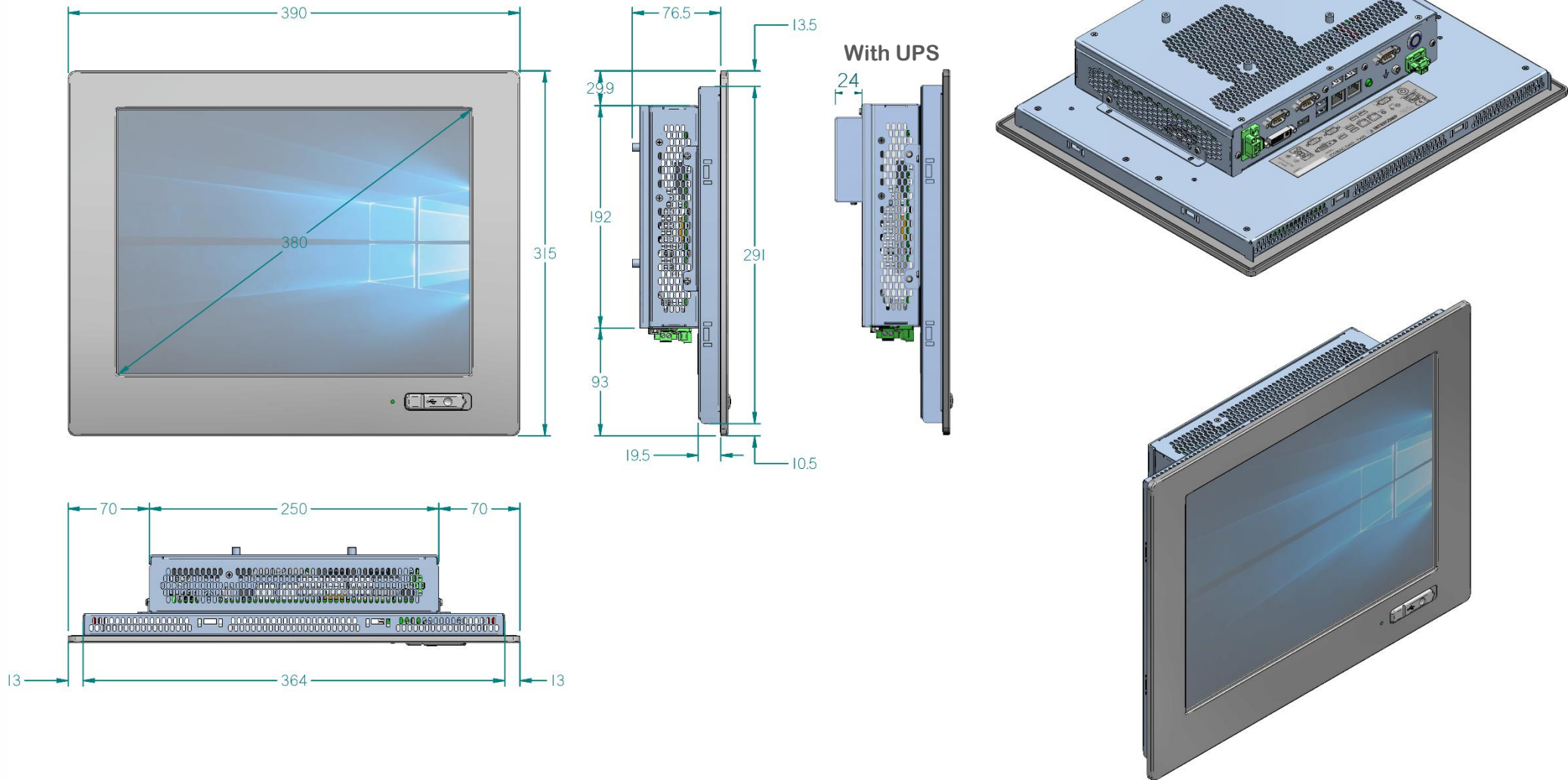
Dimensions for 15" & 6th Gen Intel® Core™ series



All dimensions are expressed in millimeters (mm)



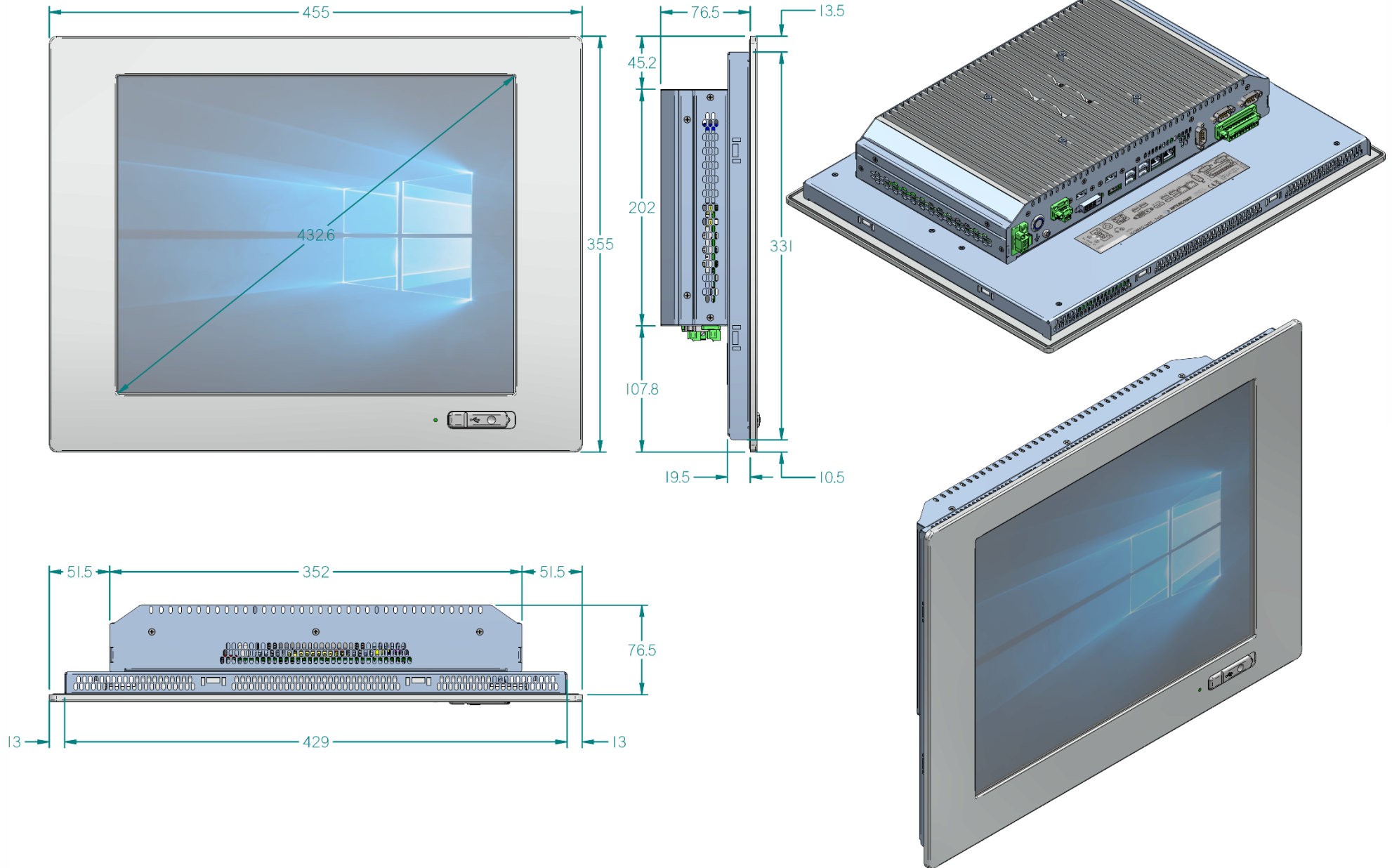
Dimensions for 15" & Intel® Celeron® J1900 series



All dimensions are expressed in millimeters (mm)



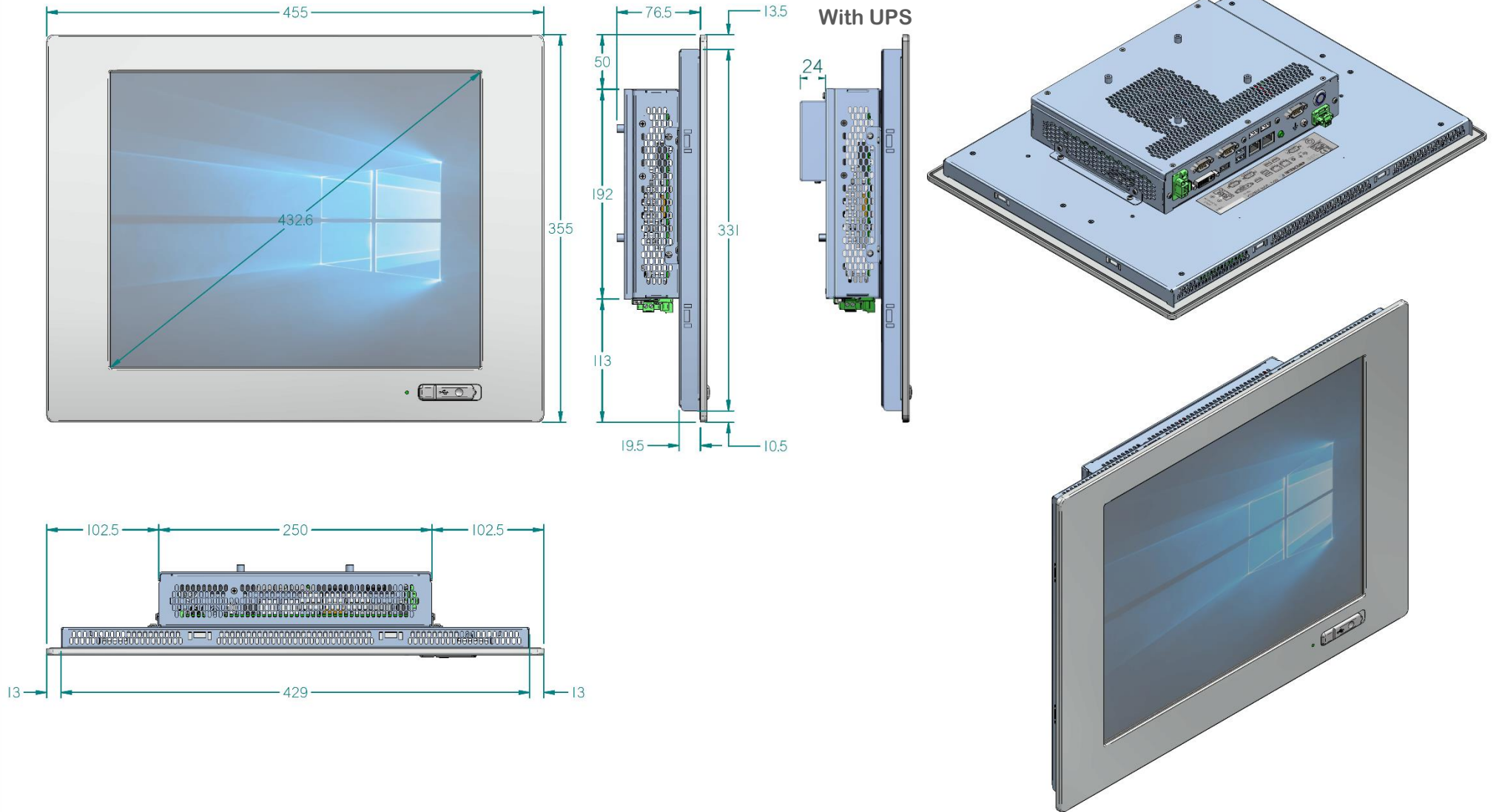
Dimensions for 17" & 6th Gen Intel® Core™ series



All dimensions are expressed in millimeters (mm)



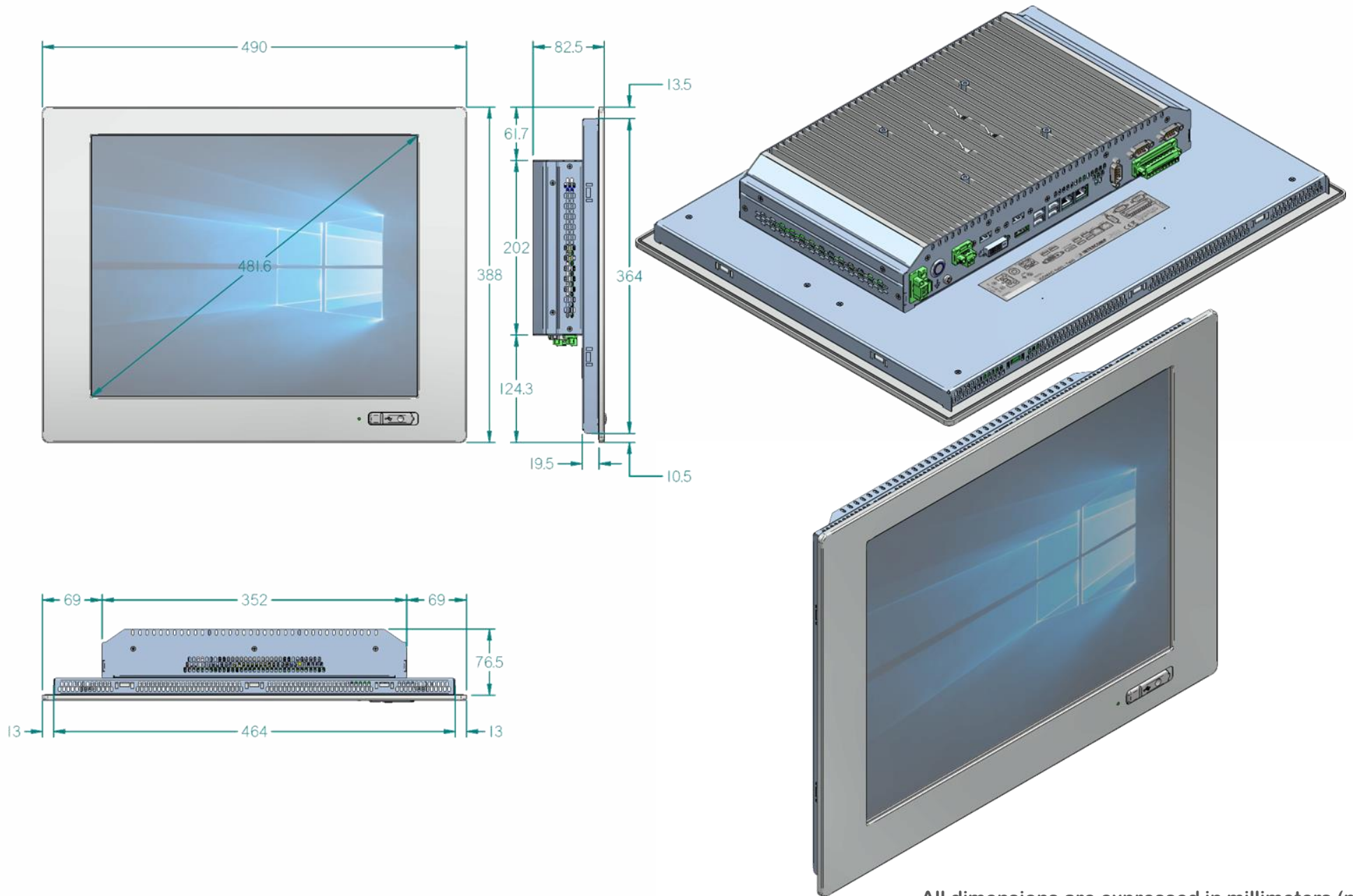
Dimensions for 17" & Intel® Celeron® J1900 series



All dimensions are expressed in millimeters (mm)



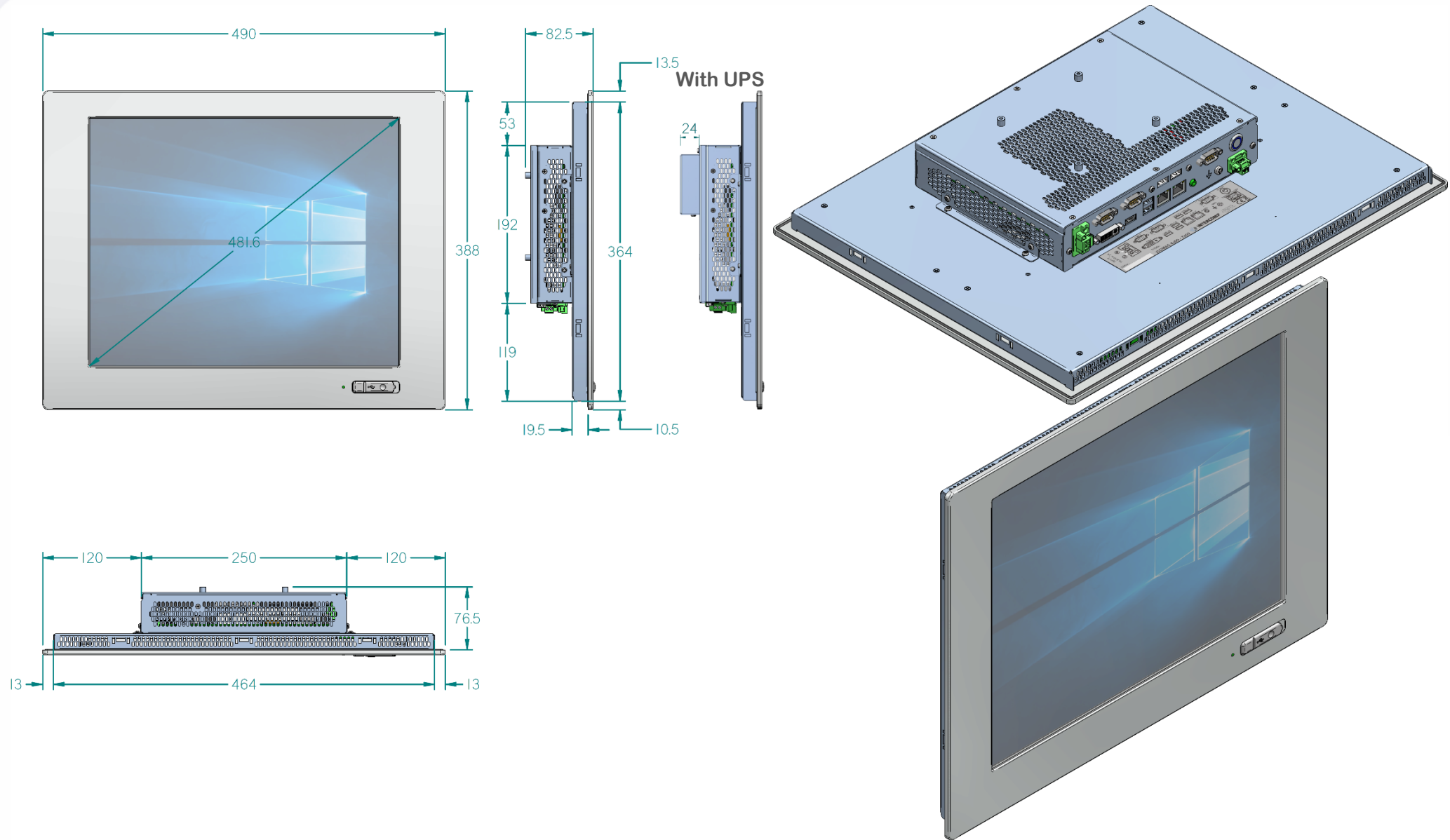
Dimensions for 19" & 6th Gen Intel® Core™ series



All dimensions are expressed in millimeters (mm)



Dimensions for 19" & Intel® Celeron® J1900 series



All dimensions are expressed in millimeters (mm)