



**ARISTA**IPC

# ARP-3800BP Series

Datasheet Collection

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## Industrial Panel PCs

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### VESA Mount Panel PCs

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## ARP-3816BP

VESA Mount Panel PC with 15.6-inch PCAP Touch Screen

### Features

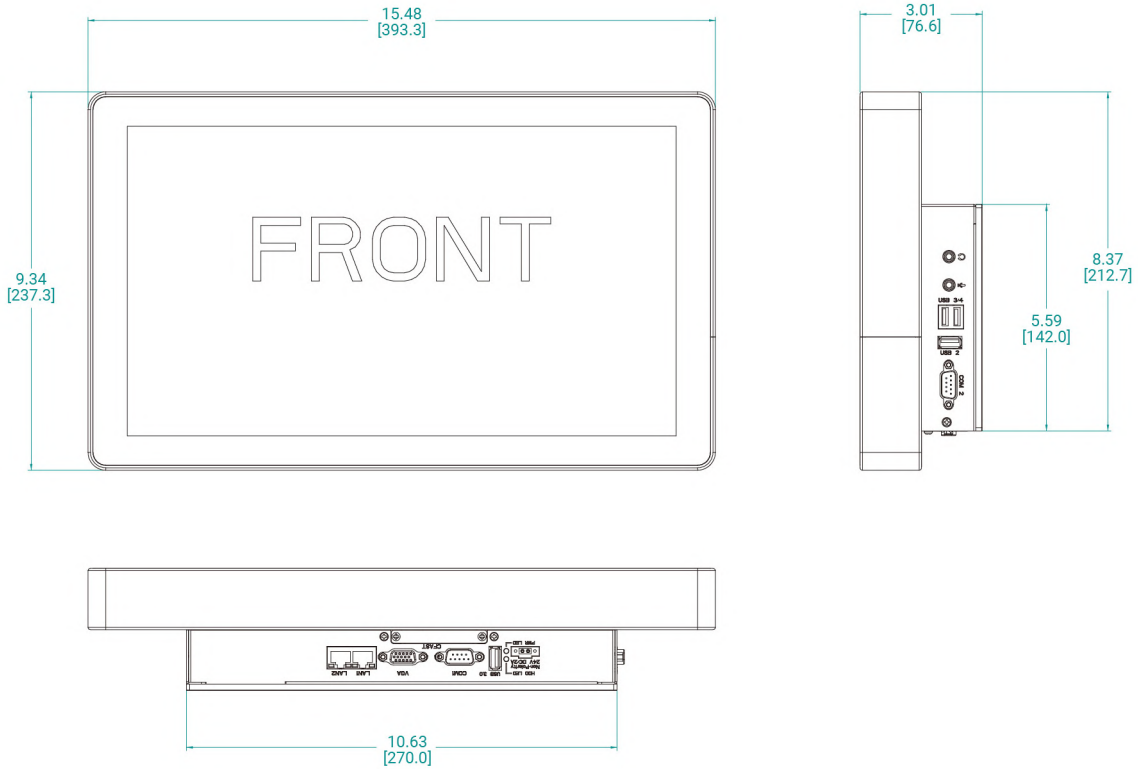
- 15.6" LCD, 1920 x 1080 Resolution
- Projected Capacitive Touch Screen
- Black Color Enclosure
- Intel E3845 ATOM CPU/ Intel i7-6600U CPU
- Up to 8GB DDR3/ Up to 16GB DDR4 SO-DIMM
- Optional 2.5" SSD
- Dual Gigabit Ethernet
- 2 x RS-232/422/485 BIOS Selectable
- 1 x USB 3.0, 3 x USB 2.0 ports
- Mic In / Line Out Jacks

### Specifications

Model Name	ARP-3816BP-E01	ARP-3816BP-H01
<b>LCD Display</b>		
Display Size (Diagonal)	15.6 inch	15.6 inch
Max Resolution	1920 x 1080	1920 x 1080
Backlight Lifetime (Hours)	50,000 hours	50,000
<b>Visual Characteristics</b>		
Colors	16.7 million	16.7 million
Aspect Ratio	16:9	16:9
Viewing Angle (V/H)	140° / 160°	140° / 160°
Contrast Ratio	700 : 1	700 : 1
Brightness	400 nits	400 nits (max)
<b>Touchscreen</b>		
Technology	Projected Capacitive	Projected Capacitive
Interface	USB	USB
Driver	Windows 7 & Windows 10	Windows 7 & Windows 10
<b>Enclosure</b>		
Colors	Black	Black
Protection	Meets IP50	Meets IP50
<b>System</b>		
CPU	Intel E3845 1.91GHz ATOM CPU	Intel 2.6/3.4 GHz i7-6600U
Chipset	Bay Trail	Skylake
Memory	Up to 8GB DDR3 SO-DIMM	Up to 16GB DDR4 SO-DIMM
Video Controller	Intel Gen7 Intel Graphics DX 11, OGL3.2	Intel HD Graphics 520
External Video Output	VGA, HDMI	VGA, HDMI
Storage Option	2.5" SSD	2.5" SSD
CFast	Optional	Optional
Keyboard	USB	USB
Mouse	Pointing Device or Touch Pad	N/A
Audio	Yes	Yes
Watchdog Timer	Programmable 1 - 255 sec	Programmable 1 - 255 sec
Remote Boot	ThinManager Ready, PXE	N/A
Expansion Slot	N/A	N/A
<b>I/O Communication</b>		
USB Port	1 x USB 3.0, 3 x USB 2.0	1 x USB 3.0, 3 x USB 2.0
Serial Port	2 x RS-232/422/485 BIOS Selectable	2 x RS-232/422/485 BIOS Selectable
IEEE 1394	N/A	N/A
LAN	2 x Gigabit	2 x Gigabit
Parallel	N/A	N/A
GPIO	N/A	N/A
<b>Smart Battery</b>		
External Smart Battery	N/A	N/A
<b>OS Support</b>		
OS Support	Windows 7 & Windows 10	Windows 7 & Windows 10
<b>Power/Thermal Specs</b>		
Power Requirement (Max)	24VDC / 1.3A	24VDC / 1.7A
Power Consumption (Max)	32 W	40W
Recommended Power Supply	45 W	60W
Heat Dissipation	108 BTU/hr	136 BTU/hr
<b>Physical Information</b>		
Mounting	VESA mount	VESA mount
Net Weight	11Lbs / 5.0 Kg	11Lbs / 5.0 Kg
Dimension (W x H x D)	15.48 x 9.43 x 3.01 inch 393.3 x 237.3 x 76.6 mm	15.48 x 9.43 x 3.01 inch 393.3 x 237.3 x 76.6 mm
Recommended Cutout Dimension (WxH)	N/A	N/A
<b>Environmental</b>		
Operating Temperature	0~50°C (32~122°F)	0~50°C (32~122°F)
Storage Temperature	-20~60°C (-4~140°F)	-20~60°C (-4~140°F)
Relative Humidity	0~95%	0~95%
IP/NEMA Rating	Meets IP50	Meets IP50
Certification	N/A	N/A

## Dimension Drawing

Model Name: ARP-3816BP  
 Size Unit: inch(mm)



## Ordering Information

Item	ARP-3816BP-E01-003	ARP-3816BP-E01-031
LCD Display	15.6" LCD / 1920 x 1080	15.6" LCD / 1920 x 1080
Touch Screen	Projected Capacitive	Projected Capacitive
Enclosure	Black Color	Black Color
CPU	E3845 ATOM CPU	E3845 ATOM CPU
Memory	4GB DDR3	8GB DDR3
Storage	N/A	2.5" SATA SSD
Remote Boot	ThinManager Ready	N/A
Power Supply	24VDC Input, 110/220VAC Power Adaptor Included	24VDC Input, 110/220VAC Power Adaptor Included

Item	ARP-3816BP-H01-031-700
LCD Display	15.6" LCD / 1920 x 1080
Touch Screen	Projected Capacitive
Enclosure	Black Color
CPU	i7-6600U
Memory	16GB DDR4
Storage	2.5" SATA SSD
Remote Boot	N/A
Power Supply	24VDC Input, 110/220VAC Power Adaptor Included



## ARP-3818BP

VESA Mount Panel PC with 18.5-inch PCAP Touch Screen



### Features

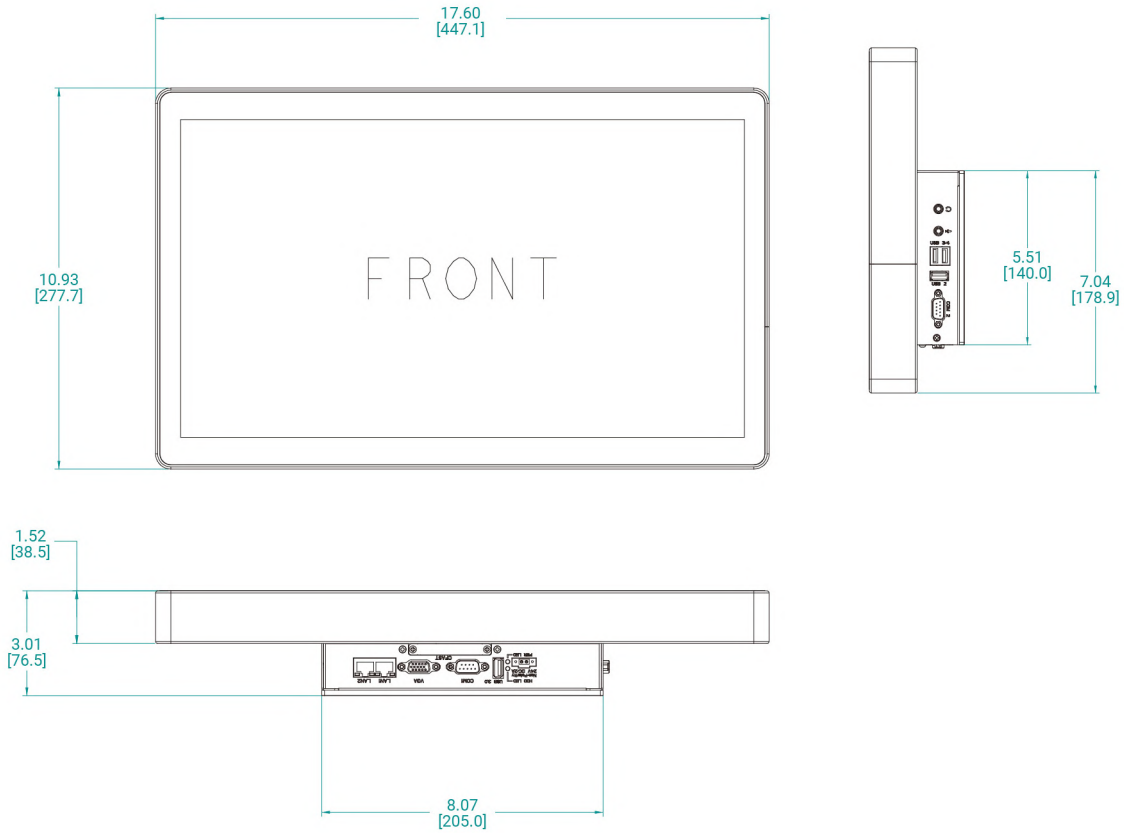
- 18.5" LCD, 1920 x 1080 Resolution
- Projected Capacitive Touch Screen
- Black Color Enclosure
- Intel E3845 ATOM CPU/ Intel i7-6600U CPU
- Up to 8GB DDR3/ Up to 16GB DDR4 SO-DIMM
- Optional 2.5" SSD
- Dual Gigabit Ethernet
- 2 x RS-232/422/485 BIOS Selectable
- 1 x USB 3.0, 3 x USB 2.0 ports
- Mic In / Line Out Jacks

### Specifications

Model Name	ARP-3818BP-E01	ARP-3818BP-H01
<b>LCD Display</b>		
Display Size (Diagonal)	18.5 inch	18.5 inch
Max Resolution	1920 x 1080	1920 x 1080
Backlight Lifetime (Hours)	50,000 hours	50,000
<b>Visual Characteristics</b>		
Colors	16.7 million	16.7 million
Aspect Ratio	16:9	16:9
Viewing Angle (V/H)	178° / 178°	178° / 178°
Contrast Ratio	1000 : 1	1000 : 1
Brightness	350 nits	350 nits (max)
<b>Touchscreen</b>		
Technology	Projected Capacitive	Projected Capacitive
Interface	USB	USB
Driver	Windows 7 & Windows 10	Windows 7 & Windows 10
<b>Enclosure</b>		
Colors	Black	Black
Protection	Meets IP50	Meets IP50
<b>System</b>		
CPU	Intel E3845 1.91GHz ATOM CPU	Intel 2.6/3.4 GHz i7-6600U
Chipset	Bay Trail	Skylake
Memory	Up to 8GB DDR3 SO-DIMM	Up to 16GB DDR4 SO-DIMM
Video Controller	Intel Gen7 Intel Graphics DX 11, OGL3.2	Intel HD Graphics 520
External Video Output	VGA, HDMI	VGA, HDMI
Storage Option	2.5" SSD	2.5" SSD
CFast	Optional	Optional
Keyboard	USB	USB
Mouse	Pointing Device or Touch Pad	N/A
Audio	Yes	Yes
Watchdog Timer	Programmable 1 - 255 sec	Programmable 1 - 255 sec
Remote Boot	ThinManager Ready, PXE	N/A
Expansion Slot	N/A	N/A
<b>I/O Communication</b>		
USB Port	1 x USB 3.0, 3 x USB 2.0	1 x USB 3.0, 3 x USB 2.0
Serial Port	2 x RS-232/422/485 BIOS Selectable	2 x RS-232/422/485 BIOS Selectable
IEEE 1394	N/A	N/A
LAN	2 x Gigabit	2 x Gigabit
Parallel	N/A	N/A
GPIO	N/A	N/A
<b>Smart Battery</b>		
External Smart Battery	N/A	N/A
<b>OS Support</b>		
OS Support	Windows 7 & Windows 10	Windows 7 & Windows 10
<b>Power/Thermal Specs</b>		
Power Requirement (Max)	24VDC / 1.6A	24VDC / 1.9A
Power Consumption (Max)	38 W	46W
Recommended Power Supply	55W	65W
Heat Dissipation	130 BTU/hr	157 BTU/hr
<b>Physical Information</b>		
Mounting	VESA mount	VESA mount
Net Weight	14 Lbs / 6.4 Kg	14 Lbs / 6.4 Kg
Dimension (W x H x D)	17.60 x 10.93 x 3.01 inch 447.1 x 277.7 x 76.5 mm	17.60 x 10.93 x 3.01 inch 447.1 x 277.7 x 76.5 mm
Recommended Cutout Dimension (WxH)	N/A	N/A
<b>Environmental</b>		
Operating Temperature	0~50°C (32~122°F)	0~50°C (32~122°F)
Storage Temperature	-20~60°C (-4~140°F)	-20~60°C (-4~140°F)
Relative Humidity	0~95%	0~95%
IP/NEMA Rating	Meets IP50	Meets IP50
Certification	N/A	N/A

## Dimension Drawing

Model Name: ARP-3818BP  
 Size Unit: inch(mm)



## Ordering Information

Item	ARP-3818BP-E01-003	ARP-3818BP-E01-031
LCD Display	18.5" LCD / 1920 x 1080	18.5" LCD / 1920 x 1080
Touch Screen	Projected Capacitive	Projected Capacitive
Enclosure	Black Color	Black Color
CPU	E3845 ATOM CPU	E3845 ATOM CPU
Memory	4GB DDR3	8GB DDR3
Storage	N/A	2.5" SATA SSD
Remote Boot	ThinManager Ready	N/A
Power Supply	24VDC Input, 110/220VAC Power Adaptor Included	24VDC Input, 110/220VAC Power Adaptor Included

Item	ARP-3818BP-H01-031-700
LCD Display	18.5" LCD / 1920 x 1080
Touch Screen	Projected Capacitive
Enclosure	Black Color
CPU	i7-6600U
Memory	16GB DDR4
Storage	2.5" SATA SSD
Remote Boot	N/A
Power Supply	24VDC Input, 110/220VAC Power Adaptor Included



## ARP-3821BP

VESA Mount Panel PC with 21.5-inch PCAP Touch Screen

### Features

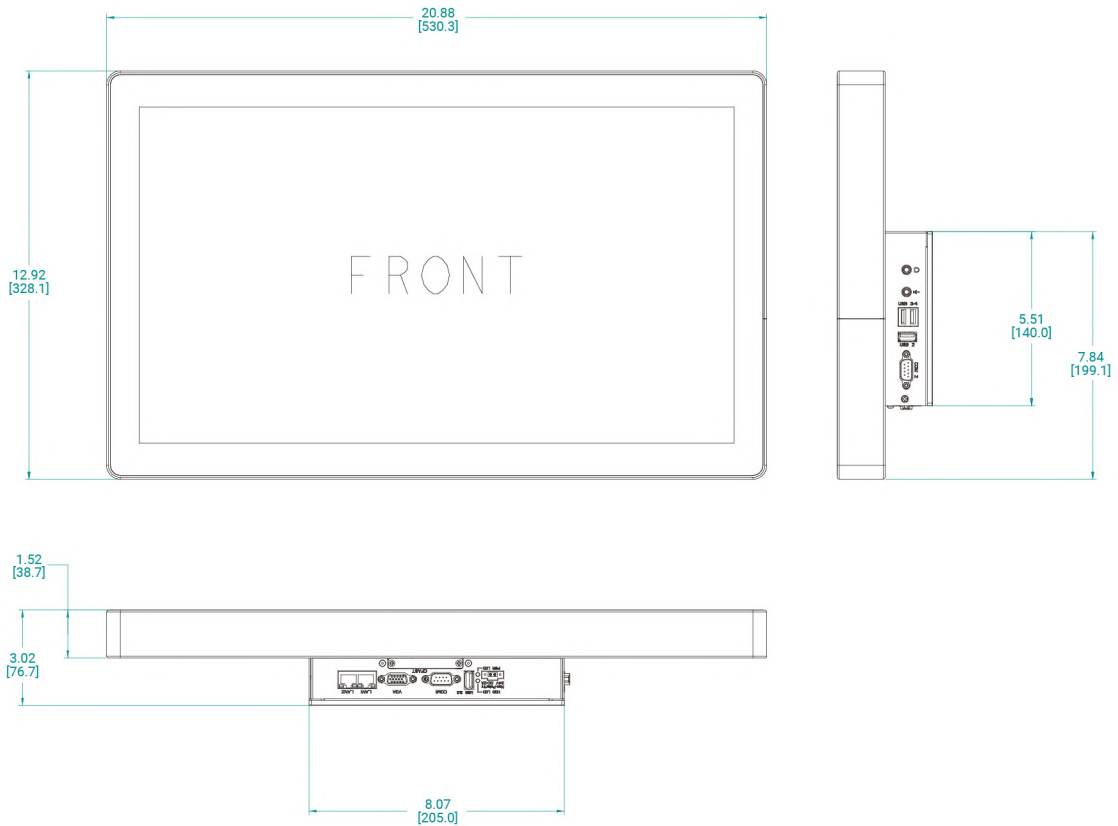
- 21.5" LCD, 1920 x 1080 Resolution
- Projected Capacitive Touch Screen
- Black Color Enclosure
- Intel E3845 ATOM CPU/ Intel i7-6600U CPU
- Up to 8GB DDR3/ Up to 16GB DDR4 SO-DIMM
- Optional 2.5" SSD
- Dual Gigabit Ethernet
- 2 x RS-232/422/485 BIOS Selectable
- 1 x USB 3.0, 3 x USB 2.0 ports
- Mic In / Line Out Jacks

### Specifications

Model Name	ARP-3821BP-E01	ARP-3821BP-H01
<b>LCD Display</b>		
Display Size (Diagonal)	21.5 inch	21.5 inch
Max Resolution	1920 x 1080	1920 x 1080
Backlight Lifetime (Hours)	50,000 hours	50,000
<b>Visual Characteristics</b>		
Colors	16.7 million	16.7 million
Aspect Ratio	16:9	16:9
Viewing Angle (V/H)	178° / 178°	178° / 178°
Contrast Ratio	1000 : 1	1000 : 1
Brightness	250 nits	250 nits (max)
<b>Touchscreen</b>		
Technology	Projected Capacitive	Projected Capacitive
Interface	USB	USB
Driver	Windows 7 & Windows 10	Windows 7 & Windows 10
<b>Enclosure</b>		
Color	Black	Black
Protection	Meets IP50	Meets IP50
<b>System</b>		
CPU	Intel E3845 1.91GHz ATOM CPU	Intel 2.6/3.4 GHz i7-6600U
Chipset	Bay Trail	Skylake
Memory	Up to 8GB DDR3 SO-DIMM	Up to 16GB DDR4 SO-DIMM
Video Controller	Intel Gen7 Intel Graphics DX 11, OGL3.2	Intel HD Graphics 520
External Video Output	VGA, HDMI	VGA, HDMI
Storage Option	2.5" SSD	2.5" SSD
CFast	Optional	Optional
Keyboard	USB	USB
Mouse	Pointing Device or Touch Pad	N/A
Audio	Yes	Yes
Watchdog Timer	Programmable 1 - 255 sec	Programmable 1 - 255 sec
Remote Boot	ThinManager Ready, PXE	N/A
Expansion Slot	N/A	N/A
<b>I/O Communication</b>		
USB Port	1 x USB 3.0, 3 x USB 2.0	1 x USB 3.0, 3 x USB 2.0
Serial Port	2 x RS-232/422/485 BIOS Selectable	2 x RS-232/422/485 BIOS Selectable
IEEE 1394	N/A	N/A
LAN	2 x Gigabit	2 x Gigabit
Parallel	N/A	N/A
GPIO	N/A	N/A
<b>Smart Battery</b>		
External Smart Battery	N/A	N/A
<b>OS Support</b>		
OS Support	Windows 7 & Windows 10	Windows 7 & Windows 10
<b>Power/Thermal Specs</b>		
Power Requirement (Max)	24VDC / 1.8A	24VDC / 2.2A
Power Consumption (Max)	43 W	51W
Recommended Power Supply	62 W	75W
Heat Dissipation	147 BTU/hr	174 BTU/hr
<b>Physical Information</b>		
Mounting	VESA mount	VESA mount
Net Weight	19 Lbs / 8.62 Kg	19 Lbs / 8.62 Kg
Dimension (W x H x D)	20.88 x 12.92 x 3.02 inch 530.3 x 328.1 x 76.7 mm	20.88 x 12.92 x 3.02 inch 530.3 x 328.1 x 76.7 mm
Recommended Cutout Dimension (WxH)	N/A	N/A
<b>Environmental</b>		
Operating Temperature	0~50°C (32~122°F)	0~50°C (32~122°F)
Storage Temperature	-20~60°C (-4~140°F)	-20~60°C (-4~140°F)
Relative Humidity	0~95%	0~95%
IP/NEMA Rating	IP65 on Front Bezel / IP50 Enclosure	IP65 on Front Bezel / IP50 Enclosure
Certification	N/A	N/A

## Dimension Drawing

Model Name: ARP-3821BP  
 Size Unit: inch(mm)



## Ordering Information

Item	ARP-3821BP-E01-003	ARP-3821BP-E01-031
LCD Display	21.5" LCD / 1920 x 1080	21.5" LCD / 1920 x 1080
Touch Screen	Projected Capacitive	Projected Capacitive
Enclosure	Black Color	Black Color
CPU	E3845 ATOM CPU	E3845 ATOM CPU
Memory	4GB DDR3	8GB DDR3
Storage	N/A	2.5" SATA SSD
Remote Boot	ThinManager Ready	N/A
Power Supply	24VDC Input, 110/220VAC Power Adaptor Included	24VDC Input, 110/220VAC Power Adaptor Included

Item	ARP-3821BP-H01-031-700
LCD Display	21.5" LCD / 1920 x 1080
Touch Screen	Projected Capacitive
Enclosure	Black Color
CPU	i7-6600U
Memory	16GB DDR4
Storage	2.5" SATA SSD
Remote Boot	N/A
Power Supply	24VDC Input, 110/220VAC Power Adaptor Included





## ARP-3855BP-E01

VESA Mount Panel PC with 55-inch PCAP Touch Screen



### Features

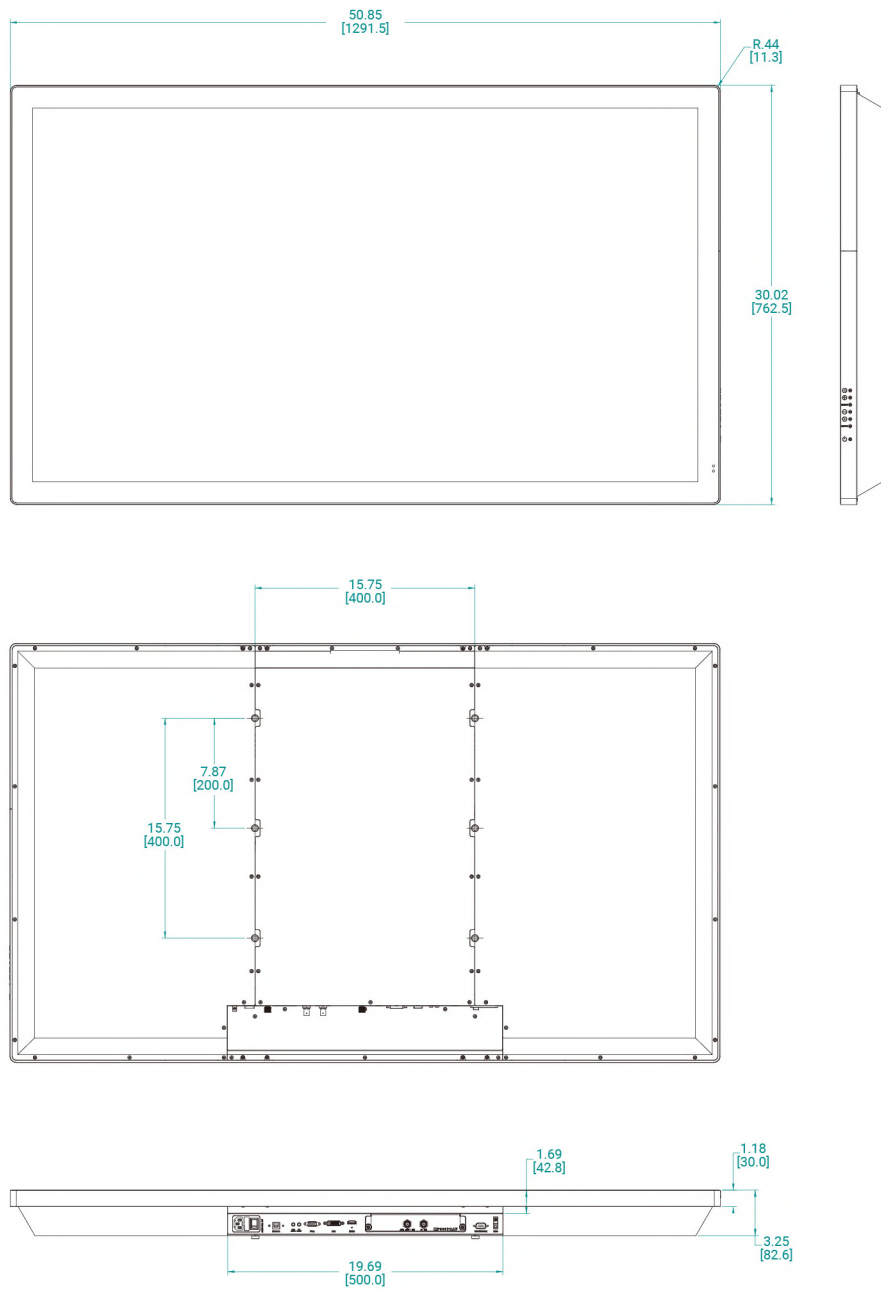
- 55" LCD, 1920 x 1080 Resolution
- Removable CPU Module
- Intel E3845 ATOM CPU
- Up to 8GB DDR3 Memory
- Optional 2.5" SSD
- Dual Gigabit Ethernet
- 1 x R232/422/485
- 1 x USB 3.0, 3 x USB 2.0 ports
- Auxiliary VGA, HDMI Inputs
- IR Remote Control
- Optional Wall Mount Bracket

### Specifications

Model Name	ARP-3855BP-E01
<b>LCD Display</b>	
Display Size (Diagonal)	55.0 inch
Resolution	1920 x 1080
Backlight Lifetime (Hours)	50,000
<b>Visual Characteristics</b>	
Colors	1073.7 million
Aspect Ratio	16:9
Viewing Angle (V/H)	178° / 178°
Contrast Ratio	4000 : 1
Brightness	500 nits
<b>Auxiliary Video Input</b>	
VGA	Yes
DVI	Yes
HDMI	Yes
Display Port	N/A
CVBS	N/A
<b>Touchscreen</b>	
Technology	N/A
Interface	N/A
Driver	Windows 7 & Windows 10
<b>Enclosure</b>	
Colors	Black
Protection	Meets IP50
<b>System</b>	
CPU	Intel E3845 1.91GHz ATOM CPU
Chipset	Bay Trail
Memory	Up to 8GB DDR3 SO-DIMM
Video Controller	Intel Gen7 Intel Graphics DX 11, OGL3.2
External Video Output	VGA, HDMI
Storage Option	2.5" SSD
CFast	Optional
Keyboard	USB
Mouse	Pointing Device or Touch Pad
Audio	Yes
Watchdog Timer	Programmable 1 - 255 sec
Remote Boot	ThinManager Ready, PXE
Expansion Slot	N/A
<b>I/O Communication</b>	
USB Port	4 x USB 2.0
Serial Port	1 x RS-232/422/485 BIOS Selectable
IEEE 1394	N/A
LAN	2 x Gigabit
Parallel	N/A
GPIO	N/A
<b>Smart Battery</b>	
External Smart Battery	N/A
<b>OS Support</b>	
OS Support	Windows 7 & Windows 10
<b>Power/Thermal Specs</b>	
Power Requirement (Max)	110VAC / 2.41A, 220VAC / 1.20A
Power Consumption (Max)	265 W
Recommended Power Supply	378 W
Heat Dissipation	903 BTU/hr
<b>Physical Information</b>	
Mounting	VESA / Optional Wall Mount Brackets
Net Weight	97 Lbs / 44.0 Kg
Dimension (W x H x D)	50.85 x 30.02 x 3.25 inch 1291.5 x 762.5 x 82.6 mm
Recommended Cutout Dimension (WxH)	N/A
<b>Environmental</b>	
Operating Temperature	0~40°C (32~104°F)
Storage Temperature	-20~60°C (-4~140°F)
Relative Humidity	10~95% (non-condensing)
IP/NEMA Rating	Meets IP50
Certification	N/A

## Dimension Drawing

Model Name: ARP-3855BP-E01  
 Size Unit: inch(mm)





## Ordering Information

Item	ARP-3855BP-E01-001-003	ARP-3855BP-E01-001-031
LCD Display	55" Wide Screen / 1920 x 1080	55" Wide Screen / 1920 x 1080
Touch Screen	Projected Capacitive	Projected Capacitive
Enclosure	Black Color	Black Color
CPU	E3845 ATOM CPU	E3845 ATOM CPU
Memory	4GB DDR3	8GB DDR3
Storage	N/A	2.5" SATA SSD
Remote Boot	ThinManager Ready	N/A
Power Supply	110/220VAC Input	110/220VAC Input



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