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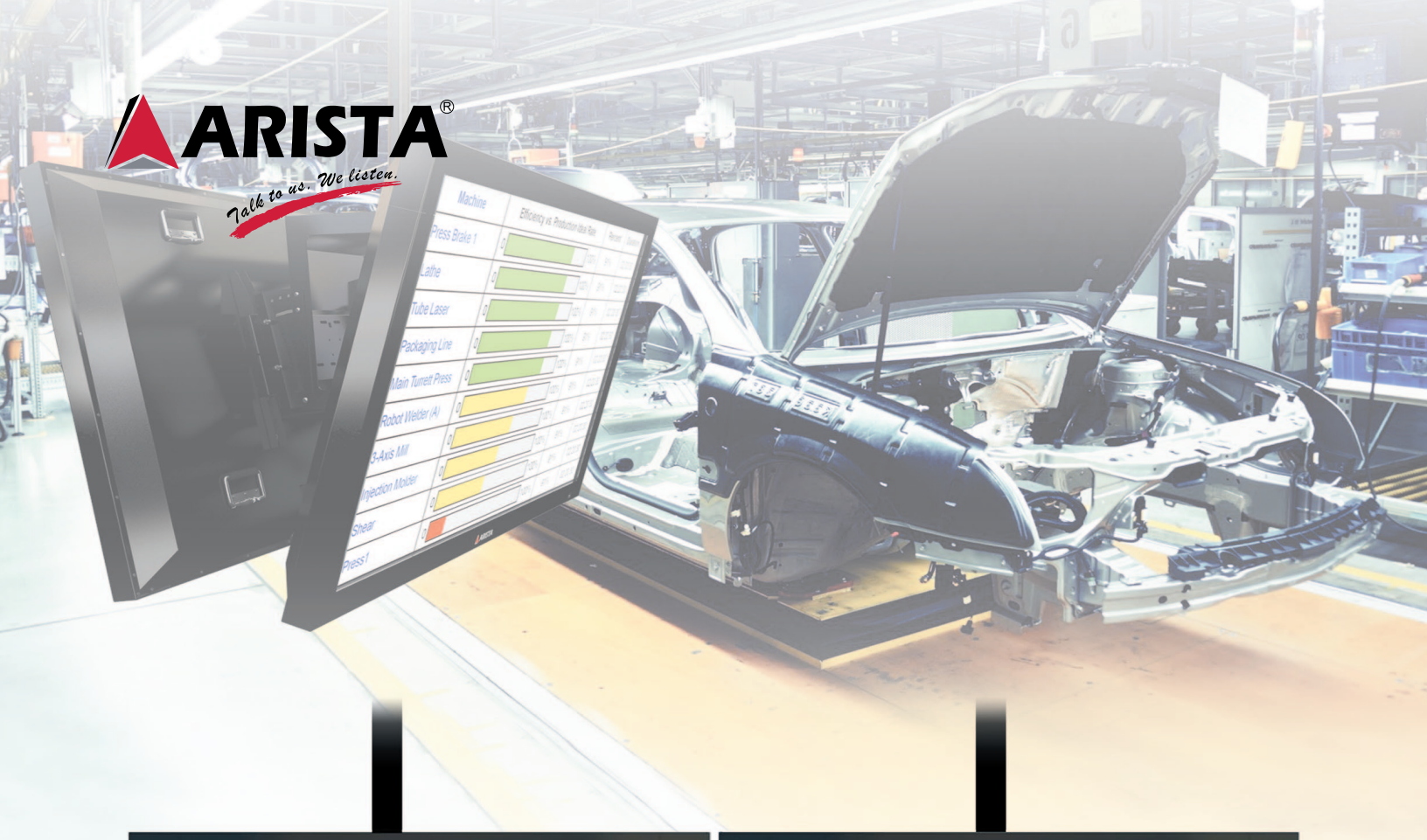


ARP-5500BP Series

Large Format Edition

Industrial Large Format Display Computers

intel®

Swappable CPU Module

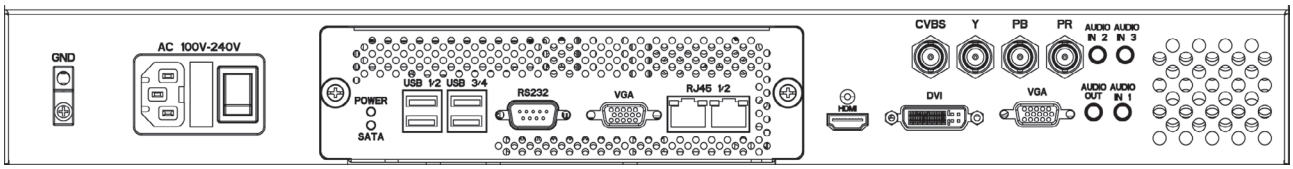
Windows® Embedded

Auxiliary Video Inputs

ARP-5500BP Series

Large Format Edition

Arista's Large Format Industrial LCD Display Computers, ARP-5542BP/ARP-5565BP/ARP-5584BP-C01, integrates swappable CPU module in the unit and available in LCD display size 42", 65" and 84". These rugged large format LCD display computers were designed with touch capability so they can be used for information kiosk on plant floor. The swappable CPU module comes with Intel N2800 1.86GHz dual core Atom CPU and can be populated up to 4GB DDR3 memory. Arista's Large Format Industrial LCD Display Computers provide optional WIFI capability which gives ARP-5500BP Series the mobility of communicating information across plant floor.



Swappable CPU Module

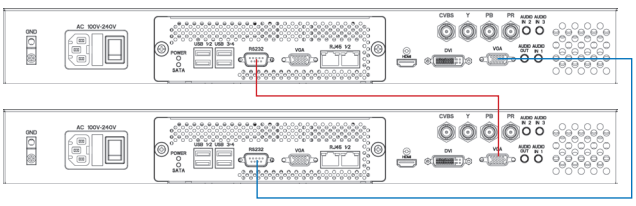
The repair and maintenance cost of large format display in high ceiling installation could be very expensive. The swappable CPU module of ARP-5500BP Series Large Format Edition minimizes downtime and the cost of repair and maintenance. Because CPU module is swappable, replacing CPU module does not require taking down the unit which saves tremendous manpower and cost. Because CPU module is swappable, replacing CPU module is easy and quick. . Because CPU module is swappable, to upgrade CPU module is easy and quick as well. The CPU module available today is powered by Intel 1.86GHz dual core Atom N2800 CPU and up to 4GB DDR 3 memory capacity. Dual Gigabit Ethernet, four USB 2.0, one RS-232 and one VGA output are integrated in CPU module.

Auxiliary Video Inputs

Arista Corp. creatively adds auxiliary video inputs to the design of ARP-5500BP Series Large Format Edition. The auxiliary video inputs can transform ARP-5500BP Series Large Format Edition to LCD Display unit by connecting to alternative computer VGA video output when CPU module fails. With auxiliary video inputs, the ARP-5500BP Series Large Format Edition can be purchased as LCD Display only and CPU module can be added in the future when it is needed.

Dual Display Backup Setup

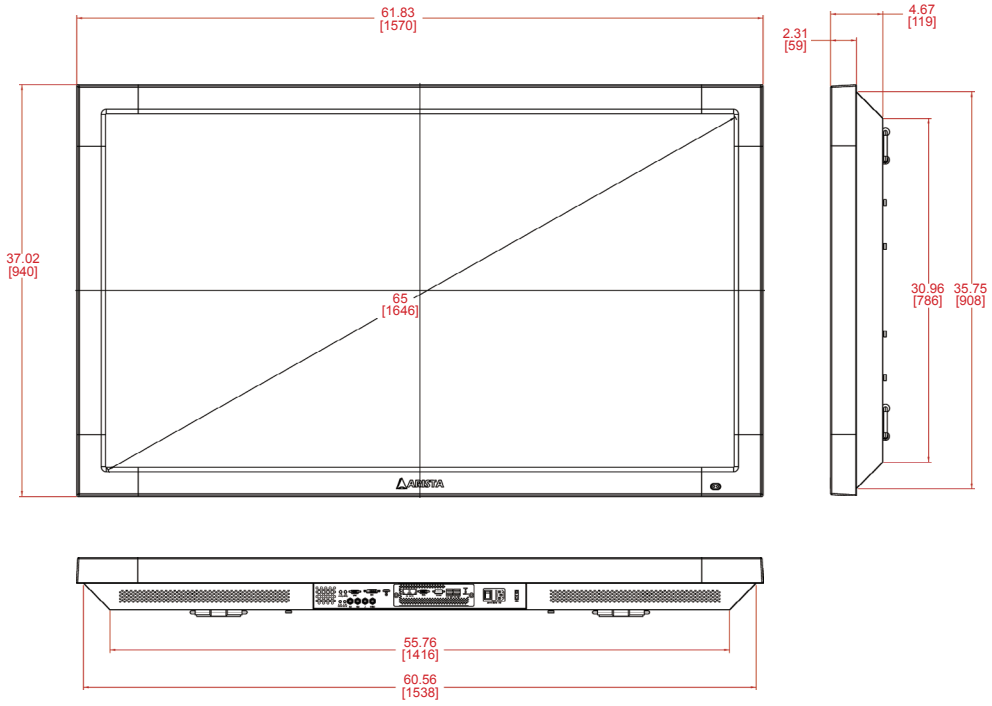
The combination of swappable CPU module and auxiliary video input creates the function of dual display backup setup. In dual display setup, two ARP-5500BP Series Large Format Edition units are inter-connected. The VGA output of each CPU module connects to VGA video input of the other unit. In the event of CPU module failure, technician can power on the other CPU module and dual display will be back to work again. In dual display setup, one unit functions as primary display and the other unit functions as secondary display. In case of CPU module failure, primary display becomes secondary display and secondary display becomes primary display. Dual display backup setup can continue to operate while failed CPU module is waiting to be replaced.



Dual Display Redundant Setup

Specifications	ARP-5542BP-C01	ARP-5565BP-C01	ARP-5584BP-C01
LCD Display			
Display Size (Diagnol)	42 inch	65 inch	84 inch
Resolution	1920 x 1080	1920 x 1080	1920 x 1080
Backlight Lifetime (Hours)	50,000	50,000	50,000
Visual Characteristics			
Colors	1073 millions	1070 millions	1060 millions
Aspect ratio	16:9	16:9	16:9
Viewing angle (V/H)	178° / 178°	178° / 178°	178° / 178°
Response time (Typical)	8 ms	8 ms	8 ms
Pixel Pitch (mm)	0.484 x 0.484	0.744 x 0.744	0.484 x 0.484
Contrast ratio	4000 : 1	4000 : 1	1600 : 1
Brightness	500 nits	450 nits	350 nits
Auxiliary Video Input			
VGA	Yes	Yes	Yes
DVI	Yes	Yes	Yes
HDMI	Yes	Yes	Yes
Display Port	N/A	N/A	N/A
CVBS	Yes	Yes	Yes
YPbPr	Yes	Yes	Yes
Touch Screen			
Technology	N/A	N/A	N/A
Interface	N/A	N/A	N/A
Driver	N/A	N/A	N/A
Enclosure			
Color	Black/White	Black/White	Black/White
Protection	N/A	N/A	N/A
System			
CPU	Intel N2800 1.86GHz ATOM CPU	Intel N2800 1.86GHz ATOM CPU	Intel N2800 1.86GHz ATOM CPU
Chipset	NM10	NM10	NM10
Memory	Up to 4GB DDR3 SO-DIMM	Up to 4GB DDR3 SO-DIMM	Up to 4GB DDR3 SO-DIMM
Video Controller	Intel Integrated Graphic Controller	Intel Integrated Graphic Controller	Intel Integrated Graphic Controller
External Video Output	VGA	VGA	VGA
Storage Option	SATA DOM, 2.5" HDD, 2.5" SSD	SATA DOM, 2.5" HDD, 2.5" SSD	SATA DOM, 2.5" HDD, 2.5" SSD
Compact Flash	N/A	N/A	N/A
Keyboard / Mouse	USB	USB	USB
Audio	N/A	N/A	N/A
Watchdog Timer	Programmable 1 - 255 sec	Programmable 1 - 255 sec	Programmable 1 - 255 sec
Remote Boot	PXE	PXE	PXE
Expansion Slot	Mini PCIe	Mini PCIe	Mini PCIe
I/O Communication			
USB Port	4 x USB 2.0	4 x USB 2.0	4 x USB 2.0
Serial Port	1 x RS-232	1 x RS-232	1 x RS-232
IEEE 1394	N/A	N/A	N/A
LAN	2 x Gigabit	2 x Gigabit	2 x Gigabit
Parallel	N/A	N/A	N/A
GPIO	N/A	N/A	N/A
Smart Battery			
External Smart Battery	N/A	N/A	N/A
OS Support			
OS Support	WinXP Pro, Win7 Pro, Win Embedded 7	WinXP Pro, Win7 Pro, Win Embedded 7	WinXP Pro, Win7 Pro, Win Embedded 7
Power / Thermal Specs			
Power Requirement (Max)	110VAC @ 1.6A, 220VAC @ 0.8A	110VAC @ 3.4A, 220VAC @ 1.7A	110VAC @ 3.4A, 220VAC @ 1.7A
Power Consumption (Max)	172 W	378 W	678 W
Heat Dissipation	594 BTU/hr	1,290 BTU/hr	2,314 BTU/hr

Specifications	ARP-5542BP-C01	ARP-5565BP-C01	ARP-5584BP-C01
Physical Information			
Mounting	VESA / Wall Mount	VESA / Wall Mount	VESA / Wall Mount
Net Weight	70 Lbs / 32 Kg	165 Lbs / 75 Kg	260 Lbs / 118 Kg
Physical Dimension	41.30 x 25.27 x 5.04 inch 1,049.0 x 641.9 x 128.0 mm	61.92 x 37.12 x 3.68 inch 1,573.0 x 942.8 x 93.4 mm	78.62 x 46.57 x 3.85 inch 1,997.0 x 1,183.0 x 98.0 mm
Cutout Dimension (WxH)	N/A	N/A	N/A
Environmental			
Operating Temp	0~40°C (32~104°F)	0~40°C (32~104°F)	0~40°C (32~104°F)
Storage Temp	-20~60°C (-4~140°F)	-20~60°C (-4~140°F)	-20~60°C (-4~140°F)
Relative Humidity	10~90% non-condensing	10~90% non-condensing	10~90% non-condensing
Rating	N/A	N/A	N/A
Certification	N/A	N/A	N/A

Ordering Information		
	ARP-5565BP-C01-Z01-011	ARP-5565BP-C01-Z01-031
LCD Display	65" Wide Screen / 1920 x 1080	65" Wide Screen / 1920 x 1080
Touch Screen	N/A	N/A
Bezel	Black	Black
CPU	N2800 ATOM CPU	N2800 ATOM CPU
Memory	4GB DDR3	4GB DDR3
Storage	2.5" SATA HDD	2.5" SATA SSD
ACP Enabled	N/A	N/A
Power Supply	110/220VAC Input	110/220VAC Input
	ARP-5565BP-C01-Z05-011	ARP-5565BP-C01-Z05-031
LCD Display	65" Wide Screen / 1920 x 1080	65" Wide Screen / 1920 x 1080
Touch Screen	N/A	N/A
Bezel	White	White
CPU	N2800 ATOM CPU	N2800 ATOM CPU
Memory	4GB DDR3	4GB DDR3
Storage	2.5" SATA HDD	2.5" SATA SSD
ACP Enabled	N/A	N/A
Power Supply	110/220VAC Input	110/220VAC Input

ARP-5565BP-C01