



ARP-2900AP Series

Arista 2nd Generation Fanless TPC

- High Brightness Active Matrix TFT LCD Display
- Flush Bezel 5-Wire Resistive Touchscreen
- 3rd Generation Intel® Core i Processor
- Up to 16GB DDR3-1600 Memory
- Detachable Computer Unit ■ PXE Boot Enabled Version Available



Panel Mount



Flush Bezel



Resistive Touch



Very High Bright



Panel Mount

Ivy Bridge Sandy Bridge



PRODUCT SPECIFICATIONS	ARP-2917AP-G01	ARP-2919AP-G01	ARP-2921AP-G01
LCD Display			
Display Size (Diagnol)	17.0 inch	19.0 inch	21.5 inch
Resolution	1280 x 1024	1280 x 1024	1920 x 1080
Backlight Lifetime (Hours)	50,000 hours	50,000 hours	50,000 hours
Visual Characteristics			
Colors	16.7 millions	16.7 millions	16.7 millions
Aspect ratio	5:4	5:4	16:9
Viewing angle (V/H)	160° / 140°	170° / 170°	180° / 180°
Response time (Typical)	30 ms	5 ms	16 ms
Pixel Pitch (mm)	0.264 x 0.264	0.294 x 0.294	0.248 x 0.248
Contrast ratio	800 : 1	1000 : 1	5000 : 1
Brightness	350 nits (max)	1000 nits	1000 nits
Touch Screen			
Technology	5 Wire Resistive	5 Wire Resistive	5 Wire Resistive
Touch Rating	35 Million Touches	35 Million Touches	35 Million Touches
MTBF	490,000 hours	490,000 hours	490,000 hours
Interface	USB	USB	USB
Front Bezel			
NEMA 4	Black Powder Coated	Aluminum (Optional)	Aluminum (Optional)
NEMA 4x	Stainless Steel (Optional)	Stainless Steel	Stainless Steel
System			
CPU	Intel i7 mobile Processor	Intel i7 mobile Processor	Intel i7 mobile Processor
Chipset	Intel QM77	Intel QM77	Intel QM77
Memory	Up to 16GB DDR3	Up to 16GB DDR3	Up to 16GB DDR3
Video Controller	Intel HD Graphics 4000	Intel HD Graphics 4000	Intel HD Graphics 4000
Video Interface	DVI, HDMI. *Support dual displays	DVI, HDMI. *Support dual displays	DVI, HDMI. *Support dual displays
Storage Option	1 x 2.5" SATA HDD	1 x 2.5" SATA HDD	1 x 2.5" SATA HDD
Compact Flash	N/A	N/A	N/A
Keyboard / Mouse	1 x PS / 2 connector	1 x PS / 2 connector	1 x PS / 2 connector
Audio	N/A	Line in, Line Out, Mic-In	Line in, Line Out, Mic-In
Watchdog Timer	Programmable 1 - 255 sec	N/A	N/A
Expansion Slot	Mini PCIe x 8	Mini PCIe x 8	Mini PCIe x 8
Remote Boot	N/A	PXE	PXE
I/O Communication			
USB Port	4 x USB 2.0, 2 x USB 3.0	4 x USB 2.0, 2 x USB 3.0	4 x USB 2.0, 2 x USB 3.0
Serial Port	3 x RS-232, 2 x RS-232/422/485	3 x RS-232, 2 x RS-232/422/485	3 x RS-232, 2 x RS-232/422/485
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	Win XP, Win Embedded 7, Win 7 & up	Win XP, Win Embedded 7, Win 7 & up	Win XP, Win Embedded 7, Win 7 & up
Power/Thermal Specs			
Power Requirement (Max)	24VDC / 3.04A	24VDC / 4.61A	24VDC / 5.51A
Power Consumption (Max)	73 W	111 W	133 W
Recommended Power Supply	105 W	158 W	189W
Heat Dissipation	250 BTU/hr	378 BTU/hr	452 BTU/hr
Physical Information			
Mounting	Panel Mount	Panel Mount	Panel Mount
Net Weight	24 Lbs / 10.9 Kg	35 Lbs / 15.80 Kg	35 Lbs / 15.80 Kg
Physical Dimension (W x H x D)	15.88 x 13.34 x 5.71 inch 403.4 x 338.8 x 144.9 mm	18.15 x 15.16 x 4.20 inch 461.0 x 385.0 x 106.8 mm	22.18 x 13.47 x 5.90 inch 563.4 x 342.2 x 151.0 mm
Recommended Cutout Dimension (WxH)	15.07 x 12.51 inch 382.8 x 317.8 mm	16.36 x 13.92 inch 415.6 x 353.6 mm	21.02 x 12.31 inch 534.0 x 312.8 mm
Environmental			
Operating Temp	0~50°C (32~122°F), * VHB Version 0~35°C (32~95°F)	0~35°C (32~95°F)	0~35°C (32~95°F)
Storage Temp	-20~60°C (-4~140°F)	-20~60°C (-4~140°F)	-20~60°C (-4~140°F)
Relative Humidity	5% to 95% (non-condensing)	0~95%	0~95%
IP/NEMA Rating	Bezel meets NEMA 4/4X requirement	Bezel meets NEMA 4/4X requirement	Bezel meets NEMA 4/4X requirement
Certification	UL 508, UL Class I Division II	N/A	N/A

Panel Mount

Skylake i7-6700T



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Display Size (Diagnol)	17.0 inch	19.0 inch	21.5 inch
Resolution	1280 x 1024	1280 x 1024	1920 x 1080
Backlight Lifetime (Hours)	50,000 hours	50,000 hours	50,000 hours
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Viewing angle (V/H)	160° / 140°	160° / 170°	180° / 180°
Response time (Typical)	30 ms	30 ms	16 ms
Pixel Pitch (mm)	0.264 x 0.264	0.294 x 0.294	0.248 x 0.248
Contrast ratio	800 : 1	1000 : 1	5000 : 1
Brightness	350 nits (max)	450 nits	1000 nits
Touch Screen			
Technology	5 Wire Resistive	5 Wire Resistive	5 Wire Resistive
Touch Rating	35 Million Touches	35 Million Touches	35 Million Touches
MTBF	490,000 hours	490,000 hours	490,000 hours
Interface	USB	USB	USB
Front Bezel			
NEMA 4	Black Powder Coated	Black Powder Coated	Aluminum (Optional)
NEMA 4x	Stainless Steel (Optional)	Stainless Steel (Optional)	Stainless Steel
System			
CPU	Intel Core i7/i5/i3/Celeron (Skylake-S) CPU	Intel Core i7/i5/i3/Celeron (Skylake-S) CPU	Intel Core i7/i5/i3/Celeron (Skylake-S) CPU
Chipset	Q170	Q170	Q170
Memory	Up to 16GB DDR4	Up to 16GB DDR4	Up to 16GB DDR4
Video Controller	Intel® Gen9 Intel Graphics	Intel® Gen9 Intel Graphics	Intel® Gen9 Intel Graphics
Video Interface	DVI, HDMI, Display port	DVI, HDMI, Display port	DVI, HDMI, Display port
Storage Option	1 x 2.5" SATA HDD	1 x 2.5" SATA HDD	1 x 2.5" SATA HDD
Compact Flash	N/A	N/A	N/A
Keyboard / Mouse	1 x PS / 2 connector	1 x PS / 2 connector	1 x PS / 2 connector
Audio	N/A	N/A	N/A
Watchdog Timer	Programmable 1 - 255 sec	Programmable 1 - 255 sec	Programmable 1 - 255 sec
Expansion Slot	Mini PCIe x 16	Mini PCIe x 16	Mini PCIe x 16
Remote Boot	N/A	N/A	N/A
I/O Communication			
USB Port	4 x USB 3.0, 2 x USB 2.0	4 x USB 3.0, 2 x USB 2.0	4 x USB 3.0, 2 x USB 2.0
Serial Port	2 x RS-232, 2 x RS-232/422/485	2 x RS-232, 2 x RS-232/422/485	2 x RS-232, 2 x RS-232/422/485
IEEE 1394	N/A	N/A	N/A
LAN	Dual Gigabit LAN	Dual Gigabit LAN	Dual Gigabit LAN
Parallel	N/A	N/A	N/A
GPIO	4 x GPI + 4 x GPO	4 x GPI + 4 x GPO	4 x GPI + 4 x GPO
Smart Battery			
External Smart Battery	N/A	N/A	N/A
OS Support			
OS Support	Windows 10, Windows 8, Windows 7	Windows 10, Windows 8, Windows 7	Windows 10, Windows 8, Windows 7
Power/Thermal Specs			
Power Requirement (Max)	N/A	N/A	N/A
Power Consumption (Max)	N/A	N/A	N/A
Recommended Power Supply	N/A	N/A	N/A
Heat Dissipation	N/A	N/A	N/A
Physical Information			
Mounting	Panel Mount	Panel Mount	Panel Mount
Net Weight	24 Lbs / 10.9 Kg	27 Lbs / 12.2 Kg	35 Lbs / 15.80 Kg
Physical Dimension (W x H x D)	15.88 x 13.34 x 5.71 inch 403.4 x 338.8 x 144.9 mm	17.80 x 14.60 x 5.71 inch 452.1 x 370.8 x 145.0 mm	22.18 x 13.47 x 5.90 inch 563.4 x 342.2 x 151.0 mm
Recommended Cutout Dimension (WxH)	15.07 x 12.51 inch 382.8 x 317.8 mm	16.98 x 13.78 inch 431.3 x 350.0 mm	21.02 x 12.31 inch 534.0 x 312.8 mm
Environmental			
Operating Temp	0~50°C (32~122°F), * VHB Version 0~35°C (32~95°F)	0~50°C (32~122°F), * VHB Version 0~35°C (32~95°F)	0~35°C (32~95°F)
Storage Temp	-20~60°C (-4~140°F)	-20~60°C (-4~140°F)	-20~60°C (-4~140°F)
Relative Humidity	5% to 95% (non-condensing)	5% to 95% (non-condensing)	0~95%
IP/NEMA Rating	Bezel meets NEMA 4/4X requirement	Bezel meets NEMA 4/4X requirement	Bezel meets NEMA 4/4X requirement
Certification	UL 508, UL Class I Division II	UL 508, UL Class I Division II	N/A