ARP-2900AP Series
Arista 2nd Generation Fanless TPC

Panel Mount • Flush Bezel • Resistive Touch • Very High Bright
Arista Corporation's 2nd generation panel mount fanless touch display industrial computers, the ARP-2900AP Series, features a laminated flush bezel touchscreen and a very high bright LCD display. This series meets NEMA 4/4X environmental requirements when properly installed in a NEMA 4/4X enclosure. The ARP-2900AP Series is powered by Intel 3rd generation i7 mobile processor and can be populated up to 16GB DDR-3 memory. With Intel vPro features, the ARP-2900AP Series can be managed remotely during an operating system crash. ARISTA's ARP-2900AP Series comes with rich I/O ports, dual display capabilities with 3 display interfaces, Display Port, DVI and HDMI; 4 x USB 2.0, 2 x USB 3.0, 3 x RS-232, 2 x RS-232/422/485, dual Gigabit Ethernet ports and one PCIe expansion slot. The non-recessed, 5-wire touch resistive LCD screen is flushed with the bezel and eliminates hard-to-reach issues concerning the corners of the desktop and improves the user's touch experience. The ARP-2900AP Series has three LCD display sizes, 17" (1280 x 1024 resolution), 19" (1280 x 1024 resolution) and 21" (1920 x 1080 FHD resolution). The ARP-2900AP Series is equipped with a very high bright LCD which provides much better visibility in high ambient brightness environments.
## ARP-2900AP Series Specifications

### LCD Display
- **Display Size (Diagonal):**
  - ARP-2917AP-G00: 17.0 inch
  - ARP-2919AP-G00: 19.0 inch
  - ARP-2921AP-G00: 21.5 inch
- **Resolution:**
  - ARP-2917AP-G00: 1280 x 1024
  - ARP-2919AP-G00: 1280 x 1024
  - ARP-2921AP-G00: 1920 x 1080
- **Backlight Lifetime (Hours):**
  - 50,000

### Visual Characteristics
- **Colors:**
  - 16.7 millions
- **Aspect ratio:**
  - 5:4
- **Viewing angle (V/H):**
  - 170° / 170°
- **Response time (Typical):**
  - 12 ms
- **Pixel Pitch (mm):**
  - 0.264 x 0.264
- **Contrast ratio:**
  - 1000 : 1
- **Brightness:**
  - 1000 nits

### Touch Screen
- **Technology:**
  - 5 Wire Resistive
- **Touch rating:**
  - 35 million touches
- **MTBF:**
  - 490,000 hours
- **Interface:**
  - USB
- **Driver:**
  - WinXP Pro, Win7 Pro, Win Embedded 7

### Front Bezel
- **NEMA 4:**
  - Aluminum (Optional)
- **NEMA 4x:**
  - Stainless Steel
- **Rack Mount Bezel:**
  - N/A

### System
- **CPU:**
  - Intel i7 mobile Processor
- **Chipset:**
  - Intel QM77
- **Memory:**
  - Up to 16GB DDR3
- **Video Controller:**
  - Intel HD Graphics 4000
- **2nd Video Interface:**
  - DVI, HDMI, Display Port
- **Storage Option:**
  - 1 x 2.5" SATA HDD
- **Keyboard / Mouse:**
  - 1 x PS / 2 connector
- **Audio:**
  - Line in, Line Out, Mic-In
- **Expansion Slot:**
  - 1 x PCIe x8
- **Remote Boot:**
  - PXE

### I/O Communication
- **USB Port:**
  - 4 x USB 2.0, 2 x USB 3.0
- **Serial Port:**
  - 3 x (RS-232), 2 x (RS-232/422/485)
- **LAN:**
  - 2 x Gigabit
- **External Smart Battery:**
  - N/A
- **OS Support:**
  - WinXP Pro, Win7 Pro, Win Embedded 7

### Power / Thermal Specs
- **Power Requirement (Max):**
  - 110VAC / 1.4A, 24VDC / 6.5A
- **Power Consumption (Max):**
  - 158 W
- **Heat Dissipation:**
  - 536 BTU/hr

### Physical Information
- **Mounting:**
  - Panel Mount
- **Net Weight:**
  - 30 Lbs / 13.60 Kg
- **Physical Dimension:**
  - 17.69 x 13.94 x 6.10 inch
- **Cutout Dimension (WxH):**
  - 15.90 x 12.20 inch

### Environmental
- **Operating Temperature:**
  - 0–50°C (32–122°F)
- **Storage Temperature:**
  - -20–60°C (-4–140°F)
- **Relative Humidity:**
  - 0–95%
- **Certification:**
  - N/A
## Ordering Information

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## ARP-2900AP Series

**I/O Connectors**

1. DC 24V input
2. Power On/Off control
3. PWV LCD: Power LCD indicator
4. HDD LED: Hard disk drive LED indicator
5. 2 x 1 LAN RJ45 Port
6. COM1, COM2, COM3 Port (RS-232/422/485)
7. COM3, COM4, COM5 Port (RS-232)
8. 1 x Display port
9. 1 x PS2 connector
10. 1 x DVI port
11. 2 x USB 2.0 port
12. 2 x USB 3.0 port
13. 1 x HDMI port
14. Line in (Blue), Line out (Green), Microphone (Pink)