



## ARC-1209-B

**12.1" Intel® Celeron® SoC Processors J1900  
Fanless Rugged PCAP Touch Panel PC with IET  
Expansion**

- > Onboard Intel® Celeron® SoC Processors J1900 BGA processor
- > Full Flat Front Panel with Projected Capacitive Touch Supports Multi Touch
- > One 204-pin DDR3L SODIMM Socket Supports Up to 8GB DDR3L 1333 SDRAM
- > 4 USB, 2 COM
- > Dual Intel I211AT Gigabit LAN
- > Wide Voltage +12V ~ +26V Input, ErP Power
- > Available Expansion for Audio, USB, COM, HDMI, PCIe, GPIO, CAN Bus
- > IP65 Compliant Front Panel, IP41 Rear Box
- > With Panel Mount kits included
- > TPM 1.2 Function (Optional)

### + Spec

-System Information-	
<b>Processor</b>	Intel® Celeron® J1900 4-Core 2.0GHz processor
<b>System Memory</b>	1 x 204-Pin DDR3L 1333MHz SO-DIMM up to 8 GB
<b>I/O Chipset</b>	EC ITE IT8528E
<b>Watchdog Timer</b>	H/W Reset, 1sec. ~ 65535sec./1sec.step
<b>H/W Status Monitor</b>	Monitoring CPU & System Temperature and Voltage
<b>SBC</b>	ARC-BYT
Specification	
<b>Dimension</b>	292.86 x 225.4 x 51.5 mm
Expansion	
<b>Expansion</b>	1 x Mini PCIe Support mSATA 1 x 80-pin IET interface
Storage	
<b>Storage</b>	1 x 2.5" Drive Bay (7mm HDD Restricted)
Panel	
<b>LCD Size</b>	12.1", 4:3
<b>Display Type</b>	XGA
<b>Resolution</b>	1024x768
<b>Pixel pitch</b>	0.240mm(H) x 0.240mm(V)
<b>Luminance</b>	600 cd/m <sup>2</sup>
<b>Contrast ratio</b>	1000
<b>Viewing angle</b>	89 (U), 89 (D), 89 (L), 89 (R)
<b>Response time</b>	11 ms
<b>Backlight</b>	LED
<b>Touch Type</b>	Projective Capacitive Multi-Touch up to 10 points
<b>Touch Light Transmission</b>	89 %
<b>Touch Controller</b>	USB touch (EETI)
I/O	
<b>USB Port</b>	1 x USB 3.0 3 x USB 2.0
<b>COM Port</b>	1 x RS-232/422/485 1 x RS-232
<b>SATA</b>	1 x SATA II
<b>Other</b>	3 x Knockouts for Antenna Mounting
Display	
<b>Graphic Chipset</b>	Intel® Valleyview SoC integrated Graphics Supports optional dual display
<b>Spec. &amp; Resolution</b>	HDMI: Max. resolution 1920x1200 @ 60Hz (optional by IET module)
Audio	
<b>Audio Codec</b>	Realtek ALC888S
<b>Speaker Output</b>	2 x 2W
Certifications	
<b>Certification Information</b>	CE FCC Class B
Ethernet	
<b>LAN Chipset</b>	2 x Intel® I211AT
<b>Ethernet Interface</b>	10/100/1000 Base-Tx GbE compatible



<b>LAN Port</b>	2 x RJ-45
<b>Power Requirement</b>	
<b>DC Input</b>	+12V ~ +26V
<b>DC Input Connector</b>	Lockable DC Jack
<b>Adapter</b>	Input: 100 ~ 240Vac/ 50 ~ 60Hz Output: 60W Adapter (12V @ 5A Adapter) AC-DC Adapter
<b>Mechanical &amp; Environmental</b>	
<b>Operating Temperature</b>	-10°C ~ 50°C (-14°F ~ 122°F)
<b>Storage Temperature</b>	-20°C ~ 60°C (-4°F ~ 140°F)
<b>Operating Humidity</b>	0% ~ 90% Relative Humidity, Non-condensing
<b>Weight</b>	2.5 Kgs
<b>Vibration Test</b>	With SSD/mSATA : 3Grms, IEC 60068-2-64, Random, 5 ~ 500Hz, 1hr/axis
<b>Shock Test</b>	Operating with SSD/CFast/mSATA : MIL-STD-810G, Method 516.6, Procedure I, functional shock=20G
<b>IP Rating</b>	Front IP65 Rear IP41
<b>Mounting Kit</b>	Wall / Stand / VESA 75mm x 75mm, 100mm x 100mm Panel Mount with mounting kits
<b>Power Mode</b>	AT/ATX (ATX is default setting)
<b>System Fan</b>	Fanless
<b>Construction - Front</b>	Die Casting with Cover lens
<b>Construction - Rear</b>	Black Die Casting
<b>Software Support</b>	
<b>OS Information</b>	Win 7 / 8.1 / 10 / Linux
<b>Ordering Information</b>	
<b>Ordering Information</b>	<p>ARC-1209-190-B3-1R 12.1" 1024x768 Industrial Touch Panel PC, ErP Design (D1 stepping CPU) Intel Celeron SoC J1900 2.0GHz CPU/2GLAN/2COM/4USB/SPK/12~26V input/12V Adapter</p> <p>Optional IET Module list:</p> <p>ACC-ARC-USB-1R 4 x USB 3.0 Kit for ARC Series</p> <p>ACC-ARC-AUDIO-1R HDMI + 5.1 CH Audio Kit for ARC Series</p> <p>ACC-ARC-MPCIE-1R HDMI + MPCIE w/SIM Kit for ARC Series</p> <p>ACC-ARC-COM-1R 2 x Isolated RS-232 Kit for ARC Series</p> <p>ACC-ARC-COM-2R 3 x RS-232 Kit for ARC Series</p> <p>ACC-ARC-COM-3R 2 x RS-232 + USB Kit for ARC Series</p> <p>ACC-ARC-COM-4R 2 x RS-232 + LAN Kit for ARC Series</p> <p>ACC-ARC-GPIO-1R 12-bit GPIO + 2-pin CAN Bus Kit for ARC Series</p> <p>ACC-ARC-OBDII-1R OBDII - CAN Bus Kit for ARC Series (OBDII/EOBD for Small Vehicle)</p> <p>ACC-ARC-OBDII-2R OBDII - CAN Bus Kit for ARC Series (J1939J1708 for Large Vehicle)</p> <p>ACC-ARC-OBDII-3R OBDII - CAN Bus Kit for ARC Series (ISO15765-4 for Special Large Vehicle)</p> <p>E1702031833R USA Power Cord E1702031000R EU Power Cord E1702031834R Japan Power Cord E1702031830R UK Power Cord E1702031831R Australia Power Cord</p>