



## ARC-1209

12.1" Intel® Atom™ SoC Processor E3845 Fanless Rugged Touch Panel PC with IET Expansion

- > Onboard Intel® Atom™ E3845 Quad-Core 1.91GHz
- > One 204-pin DDR3L SODIMM Socket Supports Up to 8GB DDR3L 1333 SDRAM
- > 4 USB, 2 COM
- > Dual Intel I210IT 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
- > 5-wire Resistive Touch
- > TPM1.2 (optional)

### + Spec

-System Information-	
Processor	Intel® Atom™ E3845 4-Core 1.91GHz processor
System Memory	1 x 204-Pin DDR3L 1333MHz SO-DIMM up to 8 GB
I/O Chipset	EC ITE IT8528E
Watchdog Timer	H/W Reset, 1sec. ~ 65535sec./1sec.step
H/W Status Monitor	Monitoring CPU & System Temperature and Voltage
SBC	ARC-BYT
Expansion	
Expansion	1 x Mini PCIe Support mSATA 1 x 80-pin IET interface
Storage	
Storage	1 x 2.5" Drive Bay (7mm HDD Restricted)
Panel	
LCD Size	12.1", 4:3
Display Type	XGA
Resolution	1024x768
Pixel pitch	0.240 mm (H) x 0.240 mm (V)
Luminance	600 cd/m <sup>2</sup>
Contrast ratio	1000
Viewing angle	89 (U), 89 (D), 89 (L), 89 (R)
Response time	11ms
Backlight	LED
Touch Type	5 Wires resistive
Touch Light Transmission	80 %
Touch Controller	Onboard USB touch (PenMount)
I/O	
USB Port	1 x USB 3.0 3 x USB 2.0
COM Port	1 x RS-232/422/485 1 x RS-232
SATA	1 x SATA II
Other	3 x Knockouts for Antenna Mounting
Display	
Graphic Chipset	Intel® Valleyview SoC integrated Graphics Supports optional dual display
Spec. & Resolution	HDMI:Max. resolution 1920x1200@60Hz (Optional by IET module)
Audio	
Audio Codec	Realtek ALC888S
Audio Interface	Speaker Out
Speaker Output	2 x 2W
Certifications	
Certification Information	CE / FCC Class B
Ethernet	
LAN Chipset	2 x Intel® I210IT
Ethernet Interface	10/100/1000 Base-Tx GbE compatible
LAN Port	2 x RJ-45
Power Requirement	



<b>DC Input</b>	+12V ~ +26V
<b>DC Input Connector</b>	Lockable DC Jack
<b>Power Mode</b>	AT/ATX (ATX is default setting)
<b>Adapter</b>	Input: 100 ~ 240Vac/ 50 ~ 60Hz Output: 60W Adapter (12V @ 5A Adapter)
<b>Mechanical &amp; Environmental</b>	
<b>Operating Temperature</b>	-20°C ~ 60°C (-4°F ~ 140°F)
<b>Storage Temperature</b>	-30°C ~ 70°C (-22°F ~ 158°F)
<b>Operating Humidity</b>	0% ~ 90% Relative Humidity, Non-condensing
<b>Dimension (W x L x H)</b>	283 x 222 x 46mm
<b>Weight</b>	2.4Kgs
<b>Vibration Test</b>	With SSD/mSATA : 5Grms, 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>System Fan</b>	Fanless
<b>Construction - Front</b>	Silver Aluminum
<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-1209-384-A3R 12.1" 1024x768 Industrial Touch Panel PC, ErP Design (D1 stepping CPU) Intel Atom SoC E3845 1.91GHz CPU/4G DDR3L/2GLAN/2COM/4USB/SPK/12~26V input/12V Adapter</p> <p>ARC-1209-WMB-A3R 12.1" 1024x768 Industrial Touch Panel PC, ErP Design/ Back panel Mount (D1 stepping CPU) Intel Atom SoC E3845 1.91GHz CPU/4G DDR3L/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-OBDDI-1R OBDDI - CAN Bus Kit for ARC Series (OBDDI/EOBD for Small Vehicle)</p> <p>ACC-ARC-OBDDI-2R OBDDI - CAN Bus Kit for ARC Series (J1939J1708 for Large Vehicle)</p> <p>ACC-ARC-OBDDI-3R OBDDI - CAN Bus Kit for ARC Series (ISO15765-4 for Special Large Vehicle)</p> <p>E1702031833R USA Power Cord</p> <p>E1702031000R EU Power Cord</p> <p>E1702031834R Japan Power Cord</p> <p>E1702031830R UK Power Cord</p> <p>E1702031831R Australia Power Cord</p>