



## ARC-1232

12.1" 6th Gen Intel® ULT Core™ Processor i7/i5/i3  
Fanless Rugged Touch Panel PC with IET  
Expansion

- > Onboard 6th Gen Intel® ULT Core™ i5 6300U 2.40GHz BGA Processor
- > One SODIMM sockets supports up to 16GB DDR4 2133 SDRAM
- > 4 USB3, 2 COM
- > Dual Intel Gigabit LAN
- > Wide Voltage +12V ~ +26V Input, ErP Power
- > Available Expansion for Audio, USB, COM, HDMI, MPCle, GPIO, CAN Bus
- > IP65 Compliant Front Panel, IP41 Rear Box
- > 5-wire Resistive Touch
- > TPM 1.2 Function (Optional)

### + Spec

| -System Information-      |                                                                          |
|---------------------------|--------------------------------------------------------------------------|
| Processor                 | 6th Gen Intel® Core™ i5-6300U, 2-Core, 2.4GHz processor                  |
| System Memory             | 1 x 260-Pin DDR4 2133MHz SO-DIMM up to 16 GB                             |
| I/O Chipset               | EC ITE IT8528E                                                           |
| Watchdog Timer            | H/W Reset, 1sec. ~ 65535min. and 1sec. or 1min./step                     |
| H/W Status Monitor        | Monitoring CPU & System Temperature and Voltage                          |
| SBC                       | ARC-SKLU                                                                 |
| Expansion                 |                                                                          |
| Expansion                 | 1 x Mini PCIe Support mSATA<br>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                | 1024 x 768                                                               |
| Pixel pitch               | 0.240 mm (H) x 0.240 mm (V)                                              |
| Luminance                 | 600 cd/m²                                                                |
| Contrast ratio            | 1000                                                                     |
| Viewing angle             | 89 (U), 89 (D), 89 (L), 89 (R)                                           |
| Response time             | 11 ms                                                                    |
| Backlight                 | LED                                                                      |
| Touch Type                | 5 Wires resistive                                                        |
| Touch Light Transmission  | 80 %                                                                     |
| Touch Controller          | Onboard USB touch (PenMount)                                             |
| I/O                       |                                                                          |
| USB Port                  | 4 x USB 3.0                                                              |
| COM Port                  | 1 x RS-232/422/485<br>1 x RS-232                                         |
| SATA                      | 1 x SATA III                                                             |
| Other                     | 3 x Knockouts for Antenna Mounting                                       |
| Display                   |                                                                          |
| Graphic Chipset           | Intel® Skylake SoC integrated Graphics<br>Supports optional dual display |
| Spec. & Resolution        | HDMI: Max. resolution 4096x2160 @ 24Hz<br>(Optional by IET module)       |
| Audio                     |                                                                          |
| Audio Codec               | Realtek ALC888S                                                          |
| Speaker Output            | 2 x 0.6W                                                                 |
| Certifications            |                                                                          |
| Certification Information | CE / FCC Class B                                                         |
| Ethernet                  |                                                                          |
| LAN Chipset               | 1 x Intel® I211AT<br>1 x Intel® I219LM                                   |
| 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>Adapter</b>                        | Input: 100 ~ 240Vac/ 50 ~ 60Hz<br>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>                         | 2.4 Kgs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <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<br>Rear IP41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Mounting Kit</b>                   | Wall / Stand / VESA 75mm x 75mm, 100mm x 100mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Power Mode</b>                     | AT/ATX (ATX is default setting)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>System Fan</b>                     | Fanless                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Construction - Front</b>           | Silver Aluminum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Construction - Rear</b>            | Black Die Casting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Dimension</b>                      | 284 x 223 x 46 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Software Support</b>               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>OS Information</b>                 | Win 7/ 8.1 / 10 / Linux                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Ordering Information</b>           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Ordering Information</b>           | <p>ARC-1232-630-A2R<br/>12.1" 1024x768 Industrial Touch Panel PC, ErP Design<br/>6th Gen Intel Core i5 6300U 2.4GHz CPU/4G DDR4/2GLAN/2COM/4USB/SPK/12~26V input/12V Adapter</p> <p>ARC-1232-WMB-A2R<br/>12.1" 1024x768 Industrial Touch Panel PC, ErP Design/ Back panel Mount<br/>6th Gen Intel Core i5 6300U 2.4GHz CPU/4G DDR4/2GLAN/2COM/4USB/SPK/12~26V input/12V Adapter</p> <p>Optional IET Module list:</p> <p>ACC-ARC-USB-1R<br/>4 x USB 3.0 Kit for ARC Series</p> <p>ACC-ARC-AUDIO-1R<br/>HDMI + 5.1 CH Audio Kit for ARC Series</p> <p>ACC-ARC-MPCIE-1R<br/>HDMI + MPCIE w/SIM Kit for ARC Series</p> <p>ACC-ARC-COM-1R<br/>2 x Isolated RS-232 Kit for ARC Series</p> <p>ACC-ARC-COM-2R<br/>3 x RS-232 Kit for ARC Series</p> <p>ACC-ARC-COM-3R<br/>2 x RS-232 + USB Kit for ARC Series</p> <p>ACC-ARC-COM-4R<br/>2 x RS-232 + LAN Kit for ARC Series</p> <p>ACC-ARC-GPIO-1R<br/>12-bit GPIO + 2-pin CAN Bus Kit for ARC Series</p> <p>ACC-ARC-OBDI-1R<br/>OBDII - CAN Bus Kit for ARC Series (OBDII/EOBD for Small Vehicle)</p> <p>ACC-ARC-OBDI-2R<br/>OBDII - CAN Bus Kit for ARC Series (J1939J1708 for Large Vehicle)</p> <p>ACC-ARC-OBDI-3R<br/>OBDII - 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> |

## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

### US

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +1 347 719 4508

Support: +1 347 719 4508

1309 Coffeen Ave  
Ste 1200  
Sheridan  
WY 82801  
USA

### EMEA

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +44 (0)1785 879 050

Support: +44 (0)1785 879 050

Unit A5 Douglas Park  
Stone Business Park  
Stone  
ST15 0YJ  
United Kingdom

VAT Number: 120 9546 28

Business Registration Number: 07699660