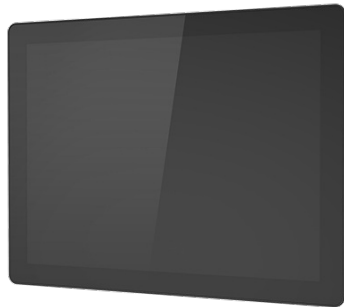




## ARC-1535-B

**15" Intel® Atom™ SoC Processor  
x6211E/x6413E/x6425E Fanless Rugged Touch  
Panel PC with IET Expansion**

- > Onboard Intel® Atom™ Elkhart Lake  
x6211E/x6413E/x6425E Processor
- > Full Flat Front Panel with Projected Capacitive Touch  
Supports Multi Touch
- > One 260-pin SODIMM sockets supports up to 32GB DDR4  
3200 SDRAM
- > 4 x USB3.2, 2 x COM
- > Dual Intel Gigabit LAN
- > 2 x M.2 Slots (Key-B 2242/3042/3052, Key-E 2230)
- > Support Wi-Fi / BT / 4G / 5G (by option)
- > Wide Voltage +12V ~ +24V 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 2.0 Function
- > Fanless Operation Wide temp. from -20°C ~ 55°C (-4°F ~  
131°F)

### Spec

| -System Information-             |                                                                                                                                                                                                                                           |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Processor</b>                 | Onboard Intel® Elkhart Lake Processor<br>Intel Atom® x6211E Processor (6W, 1.5M Cache, up to 3.00 GHz)<br>Intel Atom® x6413E Processor (9W, 1.5M Cache, up to 3.00 GHz)<br>Intel Atom® x6425E Processor (12W, 1.5M Cache, up to 3.00 GHz) |
| <b>System Memory</b>             | 1 x 260-pin DDR4 3200 MHz SO-DIMM socket, supports up to 32GB Max (In-BEND ECC supported)                                                                                                                                                 |
| <b>I/O Chipset</b>               | EC ITE IT5571                                                                                                                                                                                                                             |
| <b>Watchdog Timer</b>            | H/W Reset, 1sec. ~ 65535min. and 1sec. or 1min./step                                                                                                                                                                                      |
| <b>H/W Status Monitor</b>        | Monitoring CPU & System Temperature and Voltage                                                                                                                                                                                           |
| <b>TPM</b>                       | Onboard NuvoTon NPCT754AABYX support TPM 2.0                                                                                                                                                                                              |
| <b>SBC</b>                       | ARC-EHL                                                                                                                                                                                                                                   |
| Expansion                        |                                                                                                                                                                                                                                           |
| <b>Expansion</b>                 | 1 x M.2 Key-B 2242/3042/3052 with SIM card slot<br>Support SATA3 (BOM option for USB or PCIe for LTE(4/5G))<br><br>1 x M.2 Key-E 2230<br>Support PCIe/USB Wi-Fi/BT module<br><br>1 x 80-pin IET interface                                 |
| Storage                          |                                                                                                                                                                                                                                           |
| <b>Storage</b>                   | 1 x 2.5" Drive Bay (7mm HDD Restricted)                                                                                                                                                                                                   |
| Panel                            |                                                                                                                                                                                                                                           |
| <b>LCD Size</b>                  | 15", 4:3                                                                                                                                                                                                                                  |
| <b>Display Type</b>              | XGA                                                                                                                                                                                                                                       |
| <b>Resolution</b>                | 1024 x 768                                                                                                                                                                                                                                |
| <b>Pixel pitch</b>               | 0.297mm(H) x 0.297mm(V)                                                                                                                                                                                                                   |
| <b>Luminance</b>                 | 300 cd/m²                                                                                                                                                                                                                                 |
| <b>Contrast ratio</b>            | 2000                                                                                                                                                                                                                                      |
| <b>Viewing angle</b>             | 88 (U), 88 (D), 88 (L), 88 (R)                                                                                                                                                                                                            |
| <b>Response time</b>             | 16 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 (ILITEK ILI2511, COF)                                                                                                                                                                                                           |
| I/O                              |                                                                                                                                                                                                                                           |
| <b>USB Port</b>                  | 4 x USB 3.0                                                                                                                                                                                                                               |
| <b>COM Port</b>                  | 1 x RS-232/422/485<br>1 x RS-232                                                                                                                                                                                                          |
| <b>SATA</b>                      | 1 x SATA III                                                                                                                                                                                                                              |
| <b>Other</b>                     | 7 x Knockouts for Antenna Mounting<br>*5 from rear cover + 2 from IET bracket                                                                                                                                                             |
| Display                          |                                                                                                                                                                                                                                           |
| <b>Graphic Chipset</b>           | Intel® Elkhart Lake SoC integrated Graphics<br>Supports optional dual display                                                                                                                                                             |
| <b>Spec. &amp; Resolution</b>    | HDMI: Max. resolution 4096x2160 @ 24Hz (Optional by IET module)                                                                                                                                                                           |
| Audio                            |                                                                                                                                                                                                                                           |
| <b>Audio Codec</b>               | Realtek ALC888S(co-layout 897)                                                                                                                                                                                                            |
| <b>Speaker Output</b>            | 2 x 2W                                                                                                                                                                                                                                    |
| Certifications                   |                                                                                                                                                                                                                                           |
| <b>Certification Information</b> | CE<br>FCC Class B                                                                                                                                                                                                                         |
| Ethernet                         |                                                                                                                                                                                                                                           |



|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>LAN Chipset</b>                    | 2 x Intel® I225-IT 2.5 Gigabit Ethernet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <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 ~ +24V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <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>          | Wide temp. -20°C ~ 55°C (-4°F ~ 131°F)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Storage Temperature</b>            | Wide temp. -30°C ~ 70°C (-22°F ~ 158°F)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Operating Humidity</b>             | 40°C @ 95% Relative Humidity, Non-condensing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Weight</b>                         | 3.7 Kgs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Vibration Test</b>                 | With SSD/M.2 SSD : 3Grms, IEC 60068-2-64, Random, 5 ~ 500Hz, 30mins/axis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Shock Test</b>                     | Operating with SSD/M.2 : 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<br>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>Dimension</b>                      | 350.51 x 274.51 x 56.5 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Software Support</b>               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>OS Information</b>                 | Win10 / Linux                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Ordering Information</b>           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Ordering Information</b>           | <p>ARC-1535-X13-B1-1R<br/>15" 1024x768 Industrial Touch Panel PC, ErP Design, PCAP Multi Touch(ALC888S)<br/>Intel Atom SoC x6413E 1.50 GHz CPU/2GLAN/2COM/4USB/SPK/12~24V input/12V Adapter</p> <p>Optional IET Module list:</p> <p>ACC-ARC-USB-01R<br/>4 x USB 3.0 IET module for ARC-1535/38</p> <p>ACC-ARC-AUDIO-01R<br/>HDMI + 5.1 CH audio IET module for ARC-1535/38</p> <p>ACC-ARC-MPCIE-02R<br/>HDMI + MPCIE w/SIM IET module for ARC-1535/38</p> <p>ACC-ARC-COM-01R<br/>2 x Isolated RS-232 IET module for ARC-1535/38</p> <p>ACC-ARC-COM-02R<br/>3 x RS-232 IET module for ARC-1535/38</p> <p>ACC-ARC-COM-03R<br/>2 x RS-232 + USB IET module for ARC-1535/38</p> <p>ACC-ARC-COM-04R<br/>2 x RS-232 + LAN IET module for ARC-1535/38</p> <p>ACC-ARC-GPIO-01R<br/>12-bit GPIO + 2-pin CAN bus IET module for ARC-1535/38</p> <p>ACC-ARC-OBDI-01R<br/>OBDII - CAN bus IET module for ARC-1535/38 (OBDII/EOBD for small vehicle)</p> <p>ACC-ARC-OBDI-02R<br/>OBDII - CAN bus IET module for ARC-1535/38 (J1939J1708 for large vehicle)</p> <p>ACC-ARC-OBDI-03R<br/>OBDII - CAN bus IET module for ARC-1535/38 (ISO15765-4 for special large vehicle)</p> <p>E1702031835R USA Power Cord</p> <p>E170203183DR EU Power Cord</p> <p>E170203183BR Japan Power Cord</p> <p>E170203183ER UK Power Cord</p> <p>E1702031800R 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.

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