



ARC-1235

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

- > Onboard Intel® Atom™ Elkhart Lake x6211E/x6413E/x6425E Processor
- > 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, HDM, GPIO
- > IP65 Compliant Front Panel, IP41 Rear Box
- > 5-wire Resistive Touch
- > TPM2.0 Function
- > Fanless Operation Wide temp. from -20°C ~ 60°C (-4°F ~ 131°F)

+ Spec

| -System Information- | |
|----------------------------------|---|
| Processor | Onboard Intel® Elkhart Lake Processor Intel Atom® x6211E Processor (6W, 1.5M Cache, up to 3.00 GHz) Intel Atom® x6413E Processor (9W, 1.5M Cache, up to 3.00 GHz) Intel Atom® x6425E Processor (12W, 1.5M Cache, up to 3.00 GHz) |
| System Memory | 1 x 260-pin DDR4 3200 MHz SO-DIMM socket, supports up to 32GB Max (In-BAND ECC supported) |
| I/O Chipset | EC ITE IT5571 |
| Watchdog Timer | H/W Reset, 1sec. ~ 65535min. and 1sec. or 1min./step |
| H/W Status Monitor | Monitoring CPU & System Temperature and Voltage |
| TPM | Onboard NuvoTon NPCT754AABYX support TPM 2.0 |
| SBC | ARC-EHL |
| Expansion | |
| Expansion | 1 x M.2 Key-B 2242/3042/3052 with SIM card slot, support SATA III 1 x M.2 Key-E 2230, support PCIe1, USB2.0 1 x 80-pin IET interface |
| Storage | |
| Storage | 1 x 2.5" Drive Bay |
| 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/m ² |
| Contrast ratio | 1000 |
| Viewing angle | 89 (U), 89 (D), 89 (L), 89 (R) |
| Response time | 13 ms |
| Backlight | LED |
| Touch Type | 5 Wires resistive |
| Touch Light Transmission | 80 % |
| Touch Controller | USB touch (Penmount) |
| I/O | |
| USB Port | 4 x USB 3.2 |
| COM Port | 1 x RS-232/422/485 1 x RS-232 |
| SATA | 1 x SATA III |
| Display | |
| Graphic Chipset | Intel® Elkhart Lake SoC integrated Graphics Supports optional dual display |
| Spec. & Resolution | HDMI: Max. resolution 4096x2160 @ 24Hz (Optional by IET module) |
| Audio | |
| Audio Codec | Realtek ALC888S (897 co-layout) |
| Speaker Output | 2 x 2W |
| Certifications | |
| Certification Information | CE/ FCC class B |
| Ethernet | |
| LAN Chipset | 2 x Intel® I225-IT 2.5 Gigabit Ethernet |
| Ethernet Interface | 10/100/1000 Base-Tx GbE compatible |
| LAN Port | 2 x RJ-45 |
| Power Requirement | |



| | |
|---------------------------------------|--|
| DC Input | +12V ~ +24V |
| DC Input Connector | Lockable DC Jack |
| Adapter | Input: 100 ~ 240Vac/ 50 ~ 60Hz Output: 60W Adapter (12V @ 5A Adapter) AC-DC Adapter |
| Mechanical & Environmental | |
| Operating Temperature | Wide temp.-20°C ~ 60°C (-4°F ~ 140°F) |
| Storage Temperature | Wide temp.-20°C ~ 60°C (-4°F ~ 140°F) |
| Operating Humidity | 40°C @ 95% Relative Humidity, Non-condensing |
| Weight | 2.4 Kgs |
| Vibration Test | With SSD/mSATA : 3Grms, IEC 60068-2-64, Random, 5 ~ 500Hz, 30 mins/axis |
| Shock Test | Operating with SSD/CFast/mSATA : MIL-STD-810G, Method 516.6, Procedure I, functional shock=20G |
| IP Rating | Front IP65 Rear IP41 |
| Mounting Kit | Wall / Stand / VESA 75mm x 75mm, 100mm x 100mm |
| Power Mode | AT/ATX (ATX is default setting) |
| System Fan | Fanless |
| Construction - Front | Silver Aluminum |
| Construction - Rear | Black Die Casting |
| Dimension | 283 x 221.1 x 51.2 mm |
| Software Support | |
| OS Information | Win10 /11/ Linux |
| Ordering Information | |
| Ordering Information | <p>ARC-1235-X13-A1R 12.1" 1024x768 Industrial Touch Panel PC, ErP Design, (ALC888S) Intel Atom SoC x6413E 1.50 GHz CPU/4G DDR4/2GLAN/2COM/4USB/SPK/12~24V input/19V Adapter</p> <p>Optional IET Module list:</p> <p>ACC-ARC-USB-01R 4 x USB 3.0 IET module for ARC-1535/1538</p> <p>ACC-ARC-AUDIO-01R HDMI + 5.1 CH audio IET module for ARC-1535/1538</p> <p>ACC-ARC-MPCIE-02R HDMI + MPCIE w/SIM IET module for ARC-1535/1538</p> <p>ACC-ARC-COM-01R 2 x Isolated RS-232 IET module for ARC-1535/1538</p> <p>ACC-ARC-COM-02R 3 x RS-232 IET module for ARC-1535/1538</p> <p>ACC-ARC-COM-03R 2 x RS-232 + USB IET module for ARC-1535/1538</p> <p>ACC-ARC-COM-04R 2 x RS-232 + LAN IET module for ARC-1535/1538</p> <p>ACC-ARC-GPIO-01R 12-bit GPIO + 2-pin CAN bus IET module for ARC-1535/1538</p> <p>ACC-ARC-OBDI-01R OBDI - CAN bus IET module for ARC-1535/1538 (OBDI/EObD for small vehicle)</p> <p>ACC-ARC-OBDI-02R OBDI - CAN bus IET module for ARC-1535/1538 (J1939J1708 for large vehicle)</p> <p>ACC-ARC-OBDI-03R OBDI - CAN bus IET module for ARC-1535/1538 (ISO15765-4 for special large vehicle)</p> <p>E1702031835R USA Power Cord E170203183DR EU Power Cord E170203183BR Japan Power Cord E170203183ER UK Power Cord E1702031800R Australia Power Cord</p> |