System Features Onboard Intel Elkhart Lake Processor

AGE215

User Manual

	AGE215
	Onboard Intel® Elkhart Lake Processor / Intel Atom® x6211E Processor
	1 x 260-pin DDR4 4GB
	M.2 64GB SSD; Wide Temp: - 40 to +85C
	4 x USB
	2 x COM, PORT RS232
	2 x LAN PORT(RJ45)
	DC Power Input from 12~ 24v in
	3mm glass with logo
	two color - black in frame and black 7C light for logo print
	21.5" 1920 x 1080 ,P CAP Touch + LED Driving board
	60W Power adapter & Power cord
	Wall mount
Cyctom Footures	Screws & nuts
System Features	Individual box
	Window 10 IOT (64bit) (Avalue don't need install it in the system)
	Support TPM 2.0
	 Customer Stainless (hair-line surface treatment) keep appearance the original size Radar board include sensor function (Avalue don't need install it in the system) RFID (Avalue don't need install it in the system)
	Intended Use of the Product
Description	(Please specify in detail as much as possible the application use for the end users that this product will be applied to if this is a Medical product) →Non-medical models
	Product Environmental Standards
Description	The project member must make sure all the components that are adopted to this product complies with the environmental law and regulation of the EU in accordance with the "Product Environmental Protection Management Procedure (QQ2-019)" requirement. →Non-medical models
	Working Principles & Functionality of the Product
	(Please specify the working principles or functionality of this product in
Description	detail as much as possible if this is a Medical product)→ Non-medical models
	Risk Management
	(Please specify the result of the Risk Management evaluation performed
Description	by the project initiator, ex. customer, in detail as much as possible if this is medical product) → Non-medical models

Specifications Confirm						
Component						
Mother Board	ARC-EHL					
CPU	Onboard Intel® Elkhart Lake Processor Intel Atom® x6211E Processor					
CPU Cooler (Type)	By mechanical design Heatsink					
Memory	1 x 260-pin DDR4 4GB					
Power Supply	DC Power 12~ 24v in					
Adapter	60W, 12V power adaptor + power cord					
System Fan	N/A					
Microphone	N/A					
Speaker	1 Speaker					
Camera	N/A					
Wireless LAN	N/A					
Bluetooth	N/A					
Operating System	Window 10 IOT (64bit) (Avalue don't need install it in the system)					
Expansion Card	N/A					
Other Component	TPM 2.0 (NuvoTon_NPCT754AADYX / [Infineon_SLB9670VQ2.0 co-lay) Default is NuvoTon by Option for customer request					
Radar board	Radar board include sensor function / I2C (Use SMBUS is pulled out to define as I2C) (Avalue don't need install it in the system)					
RFID	RFID (Avalue don't need install it in the system)					
	Storage					
Floppy Disk Drive	N/A					
Hard Disk Drive	N/A					
Optical Disk Drive	N/A					
Solid State Drive	N/A					
Other Storage Device	M.2 64GB SSD ; Wide Temp: - 40 to +85C					
	Panel					
LCD Panel	21.5" BOE LCD:E9689421502R					
LCD Control Board	N/A					
B/L Inverter/Converter	E968X000244R					
Touch Screen	21.5" Touch screen -3mm (Customized)					
Touch Controller	EETI By Touch screen is attached					
Others	1.21.5" LED Driving board 2.Bonding Panel: 21.5" BOE LCD:E9689421502R + Touch screen					
External I/O						
PS/2 KB & Mouse	N/A					
Serial Port	1 x DB-9 COM1 (RS-232/422/485, selectable by BIOS & JUPMER, RS-485 supports Auto Flow, Pin-9 selected for Ring/+5V/+12V by Jumper) 1 x DB-9 COM2 (RS-232, Pin-9 selected for Ring/+5V/+12V by					

Dumper D					
1394 Port	Parallel Port				
1394 Port	USB Port				
DIO Port N/A □ LAN Port 2 x Intel® 1225-IT 2.5 Gigabit Ethernet (RJ45)→122C-IT#1 Blocked Wireless LAN N/A □ Antenna Switch N/A □ Indicator Light HDD LED, Power LED (Green for Power, Yellow for HDD) □ Expansion Slots N/A Others ARC-EHL board Remove PenMount6000, LAN 1225-1 (Not using this function) Mechanical	1394 Port				
LAN Port 2 x Intel® 1225-IT 2.5 Gigabit Ethernet (RJ45)→122C-IT#1 Blocked	PCMCIA Port				
Blocked Wireless LAN N/A N/A	DIO Port				
Antenna Switch N/A Indicator Light HDD LED, Power LED (Green for Power, Yellow for HDD) Expansion Slots N/A Others ARC-EHL board Remove PenMount6000, LAN I225-1 (Not using this function) Mechanical Power Type 12V~24V wide voltage DC input Power Connector 1 x DC-J 3P 90D(M) 2.5mm Type Dimension 537 x 390 x45mm Weight TBD Color Stainless (hair-line surface treatment) Fanless Yes OS Support Window 10 IOT (64bit) (Avalue don't need install it in the system) Software Specification Description N/A Reliability Dust and Rain Test TBC Vibration Test Random Vibration Operation 1. PSD: 0.00454G²/Hz , 1.5 Grms	LAN Port				
Indicator Light					
Expansion Slots N/A Others ARC-EHL board Remove PenMount6000, LAN I225-1 (Not using this function) Mechanical Power Type 12V~24V wide voltage DC input Power Connector Type Dimension 537 x 390 x45mm Weight TBD Color Stainless (hair-line surface treatment) Fanless Yes OS Support Window 10 IOT (64bit) (Avalue don't need install it in the system) Software Specification Description N/A Reliability Dust and Rain Test TBC Vibration Test Random Vibration Operation 1. PSD: 0.00454G²/Hz , 1.5 Grms	Switch				
Others	Indicator Light				
Not using this function Mechanical	Expansion Slots				
Power Type	Others				
Power Type					
Power Connector Type Dimension 537 x 390 x45mm Weight TBD Color Stainless (hair-line surface treatment) Fanless Yes OS Support Window 10 IOT (64bit) (Avalue don't need install it in the system) Software Specification Description N/A Reliability Dust and Rain Test TBC Vibration Test Random Vibration Operation 1. PSD: 0.00454G²/Hz , 1.5 Grms	Dower Type				
Type Dimension 537 x 390 x45mm Weight TBD	• • • • • • • • • • • • • • • • • • • •				
Weight TBD	Туре				
Color Stainless (hair-line surface treatment) Fanless Yes					
Fanless Yes OS Support Window 10 IOT (64bit) (Avalue don't need install it in the system) Software Specification Description N/A Reliability Dust and Rain Test TBC Vibration Test Random Vibration Operation 1. PSD: 0.00454G²/Hz , 1.5 Grms	Weight				
OS Support Window 10 IOT (64bit) (Avalue don't need install it in the system) Software Specification Description N/A Reliability Dust and Rain Test TBC Vibration Test Random Vibration Operation 1. PSD: 0.00454G²/Hz , 1.5 Grms	Color				
(Avalue don't need install it in the system) Software Specification Description N/A Reliability Dust and Rain Test TBC Vibration Test Random Vibration Operation 1. PSD: 0.00454G²/Hz , 1.5 Grms	Fanless				
Software Specification Description N/A Reliability Dust and Rain Test TBC Vibration Test Random Vibration Operation 1. PSD: 0.00454G²/Hz , 1.5 Grms	OS Support				
Description N/A Reliability Dust and Rain Test TBC Vibration Test Random Vibration Operation 1. PSD: 0.00454G²/Hz , 1.5 Grms					
Reliability Dust and Rain Test TBC Vibration Test Random Vibration Operation 1. PSD: 0.00454G²/Hz , 1.5 Grms					
Dust and Rain Test TBC Vibration Test Random Vibration Operation 1. PSD: 0.00454G²/Hz , 1.5 Grms	Description				
Vibration Test Random Vibration Operation 1. PSD: 0.00454G²/Hz , 1.5 Grms					
1. PSD: 0.00454G ² /Hz , 1.5 Grms	Dust and Rain Test				
3. Test Frequency: 5-500Hz 4. Test Axis: X,Y and Z axis 5. 30 minutes per each axis 6. IEC 60068-2-64 Test:Fh 7. Storage: CF or SSD Random vibration test (Non-operation) 1 Test Acceleration: 2G 2 Test frequency: 5~500 Hz 3 Sweep: 1 Oct/ per one minute. (logarithmic) 4 Test Axis: X,Y and Z axis 5 Test time:10 min. each axis 6 System condition: Non-Operating mode 7. Reference IEC 60068-2-6 Testing procedures	Vibration Test				
Mechanical Shock 10Grms, IEC 60068-2-27, Half Sine, 11ms	Manhaniaal Obaala				

Test						
Package Drop Test	Package drop test					
	1 One corner , three edges, six faces			_		
		2 ISTA 2A, IEC-60068-2-32 Test:Ed				
Operating	0°C ~ 40°C					
Temperature						
Operating Humidity		0%~90% relative humidity, non-condensing				
Storage Temperature	-20°C ~ 60°C					
Other Test	N/A					
Package vibration	1. PSD:0.02					
test	2. Non-operation mode					
	•	uency: 5-500Hz				
		X,Y and Z axis				
		er each axis 8-2-64 Test: Fh				
Bump Test		n: Half Sine wave				
Bump root		on Rate: 10 g for operation m	node			
	3. Duration 7					
		ock: Z axis 300 times				
	5. Test Axis:					
	6. Operation mode7. Reference IEC 60068-2-29 Testing procedures Test Eb:					
Bump Test EMC Certification (EMI+EMS)						
		VIO CEITIICATION (EIVII+EIVIC	備註:對於只做預掃描	測試日安勤未協助		
			申請證書的專案,PCB			
 驗證內容	選項 CE/FCC Logo					
Verification Standards		Options	Remarks: For projects			
	pre-scan test and Ava in applying for certification					
CE	☐ Class A	品明(次加本文口)	cannot be printed on P	-		
2014/30/EU	<u> </u>	歐盟(資訊類產品)				
EMC EN55032+55035	Class B	EU (ITE)				
2017/745/ EU	□ CE	歐盟(醫療類產品)				
CE EN60601-1-2		EU (Medical)				
Others	N/A	TMI Contification				
		EMI Certification	備註:對於只做預掃描	测计日宏数主协品		
			備註・對於六做預辦抽 申請證書的專案,PCB			
形 · 於 · 內 · 応	選項 Options		CE/FCC Logo	工作工作分		
驗證內容 Verification Standards			Remarks: For projects	that only do		
vormoation otaniaarao		Options	pre-scan test and Aval			
	in applying for certific cannot be printed on					
FCC part 15B			cannot be printed on t	СВ		
Federal	Class A	美國地區(資訊類產品)				
Communication	Class B	US region (ITE)				
Commission	Class D					
ICES-003 (Canada EMI		加拿大地區,Based on FCC				
requirement)	🖳	Canada Region				
UKCA		苗岡山厄/恣山柘玄口\				
(United Kingdom EMI		英國地區(資訊類產品) UK Region (ITE)				
requirement)		3 ()				
VCCI	Without	日本地區(會員才可以投件)				
(Japan EMI	WiFi	Japan Region				

requirement))		(Only members can submit						
Others	N/A	application)						
RF (無線通訊設備) Certification								
驗證內容 Verification Standards	選項 Options		備註:對於只做預掃描測試且安勤未協助申請證書的專案,PCB上不可印有CE/FCC Logo Remarks: For projects that only do pre-scan test and Avalue does not assist in applying for certificates, CE/FCC Logo cannot be printed on PCB					
EN 300 330	■ CE	歐盟 EU						
WIFI (for FCC ID) FCC part 15C	☐ FCC	美國地區 US region						
Others	N/A							
Safety Certification								
驗證內容 Verification Standards	選項 Options		備註:對於只做預掃描測試且安勤未協助申請證書的專案,PCB 上不可印有CE/FCC LogoRemarks: For projects that only dopre-scan test and Avalue does not assist in applying for certificates, CE/FCC Logocannot be printed on PCB					
2014/35/EU LVD EN 62368-1 Low Voltage Directive	■ CE	歐盟(資訊類產品) EU, Safety (ITE)	EN 62368-1					
(EU)2017/745 MDR EN 60601-1	☐ CE	歐盟(醫療類產品) 需附風險評估報告 EU (Medical) Safety Risk assessment report required						
UL(系統) UL/cUL-62368-1	□ UL	資訊類 ITE						
UL(系統) UL/cUL-60601-1	□ UL	醫療類需附風險評估報告 Medical, risk assessment report required						
Others	N/A							

Class B: (Section 15.105) 一般性警語(適用所有產品,成品)

FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- -Reorient or relocate the receiving antenna.
- -Increase the separation between the equipment and receiver.
- -Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- -Consult the dealer or an experienced radio/ TV technician for help.

(Section 15.21)

CAUTION:

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

標籤的需求 (Section 15.19)(a)(3)

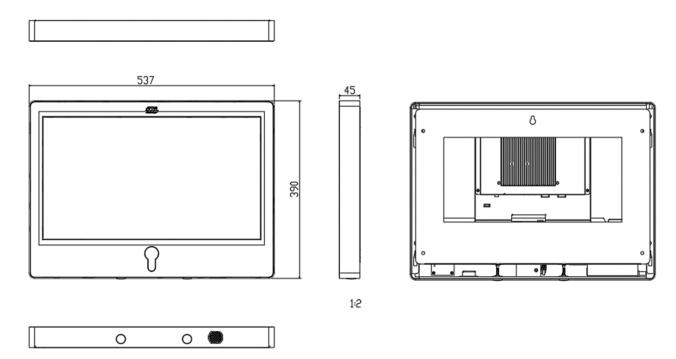
備註 1. 若本段文字無法排版於標籤上(EUT 小於 8*10cm 時),可移至使用手冊 備註 2. 若產品同時有 DoC,可將警語移至使用手冊

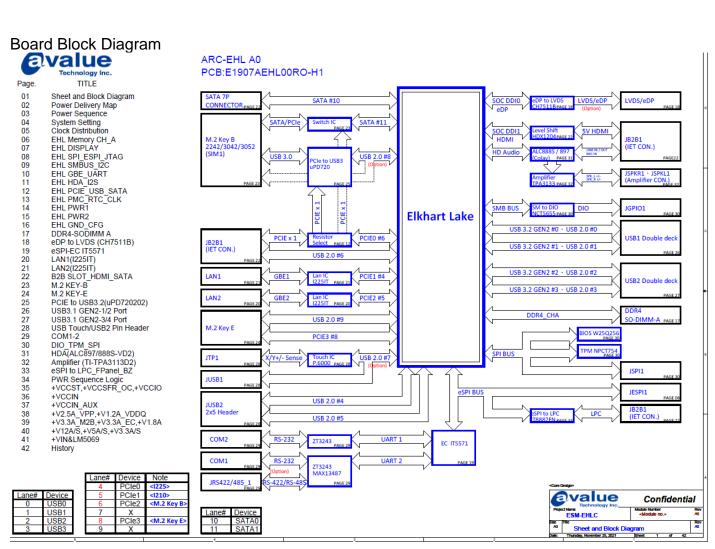
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

RF Exposure

RF exposure warning

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provide with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.



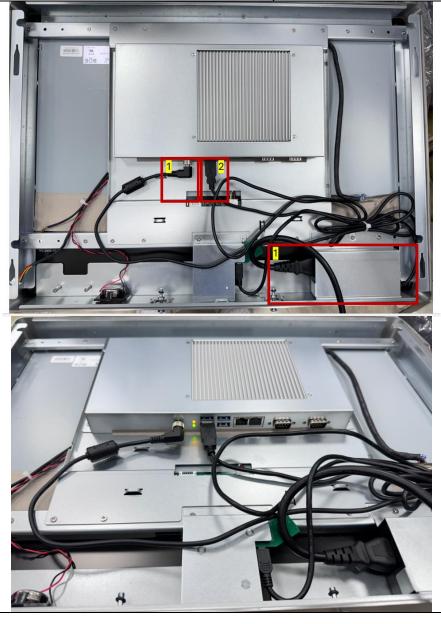


Operation Manual

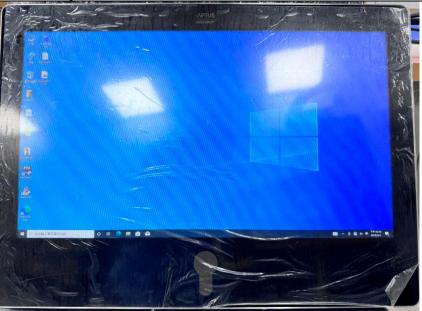
Step1:

1.The lower right adapter on the back of the machine powers the Panel PC via the power cord.

2.The USB of the intermediate RFID is inserted into the USB port.



Step2: The Panel PC boots successfully.



Step3:
Power off: Click the bottom left corner of the screen to select Power Off

