Alcom electronics

Featured

Empowering a Smart Future with industrial computing products and leading IoT solutions

avalue Technology Inc.

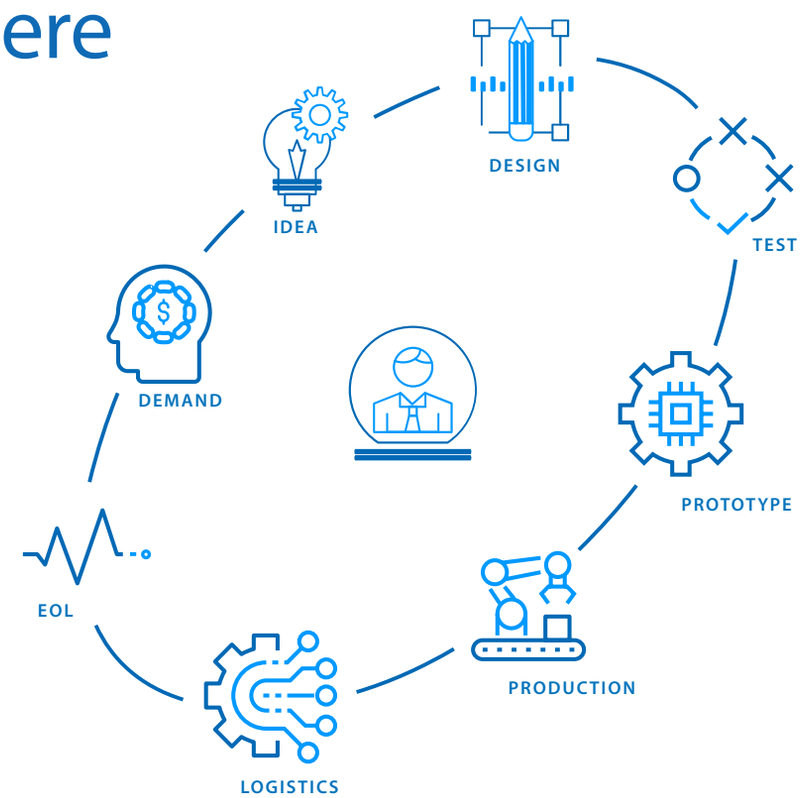
Avalue & Alcom

Alcom electronics and Avalue from Taiwan are working together since almost 20 years.

Avalue is dedicated to develop x86 and RISC architecture products, including embedded computers (SBC), System-on-Modules, industrial motherboards, panel PCs, e-paper systems, all purpose tablet PCs and barebone products ....

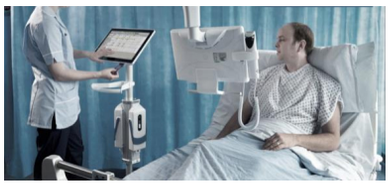
We are ready to discuss your next application in **Intelligent Transportation**, **Smart Manufacturing**, **Smart Retail**, **Digital Healthcare** and **IoT**.
The knowledgeable Alcom team provides technical support from concept to production by manufacucturer Certified Application engineers

Co-creation starts here



"Alcom considers everybody an indispensable added value in the collaborative chain with all of its partners.

Applications & Markets



HEALTHCARE

IOT CONNECTIVITY

SMART RETAIL

RTLS IN WAREHOUSE

SMART MANUFACTURING

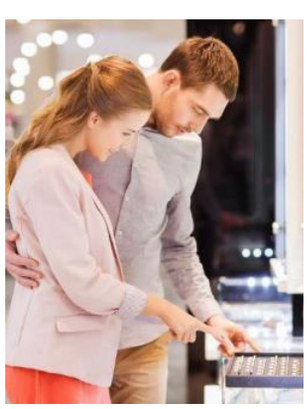
AI TRAFFIC SOLUTIONS

Products tailored to your needs

SERVICES | EMBEDDED COMPUTING | APPLIED COMPUTING | INTELLIGENT IOT PLATFORM

Focused IoT segments

SMART RETAIL



- Interactive Digital Signage
- QSer Smart Service
- AI Object Recognition Checkout Solution

DIGITAL HEATHCARE/ MEDICAL

- Nurse Station
- Smart Ward
- Fitness Center

SMART MANUFACTURING

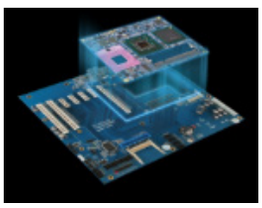
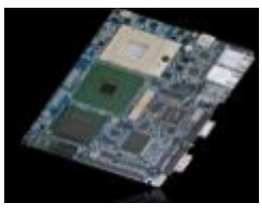
- Predictive Maintenance by acoustic/ Vibration Machine Monitoring
- Real Time Indoor Positioning and Tracking Solution

INTELLIGENT TRANSPORTATION

- Traffic Enforcement
- AI Recognition Safety Warning
- Marine/ Railway/ In-Vehicle Equipment

Product Snapshot

Embedded Computing

COM	SBC	INDUSTRIAL MAINBOARD	RUGGED SYSTEM	RACKMOUNT SERVER
Compact size 30 -day Baseboard Prototype service	Low power Rich I/O fuctions Extreme Performance	Product longevity Manageability Reliable Flexible	Rugged design Anti-shock Anti-vibration Modularize	Expandable High performance Integration
COM EXPRESS, XTX/ETX, Q7	3.5"/EPIC/ 5.25"	MINI ITX, MICRO ATX, ATX	EMS & MODULE EPS, ERS SERIES	HPC INDUSTRIAL BAREBONE

Applied Panel Computing

HEALTHCARE MEDICAL	RUGGEDIZE	CAPACITIVE MULTI-TOUCH	MULTI-FUNCTIONAL	MODULARIZED PANEL PC
Full HD True flat Multi-touch	Rugged Wide temp. Water/dust proof	Fanless VESA mount P-cap touch	Slim Design 5-wire touch Rich I/O, Light bar	Expandable 5-wire touch Wide temp

Intelligent IoT Platform

ALL IN ONE POS	MOBILE COMPUTING	DIGITAL SIGNAGE	INTELLIGENT TRANSPORTATION	SMART MANUFACTURING
Multiple OS Rich I/O Water/dust proof	Rugged design Light weight Long battery life	Fanless Multi-touch Remote control	CAN Modules Vibration & shock Wide range DC	Real-time Locating/tracking Predictive maintenance

Focused IoT Segments

Digital Healthcare/ Medical

MEDICAL EQUIPMENT

POINT OF CARE

MEDICAL IMAGING

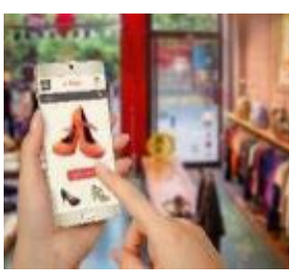
FITNESS EQUIPMENT

Smart Retail

DIGITAL SIGNAGE

POINT OF SALE

MOBILE SOLUTION



SMART CLOUD-BASE RETAIL

Smart Manufacturing

INDUSTRIAL PC

MES/ HUMAN MACHINE INTERFACES

REAL-TIME UWB INDOOR POSITIONING

PREDICTION MAINTENANCE

Intelligent Transportation

MARINE / IN-VEHICLE

DRIVING BEHAVIOR MONITORING

TRAFFIC ENFORCEMENT

AI RECOGNITION SAFETY WARNING

New product releases

21.5"WITH FULL-HD PCAP MULTI-TOUCH J3455 RUGGED TOUCH PANEL PC

Designed to be waterproof, dustproof, shockproof and scratchproof, Avalue ARC-series rugged touchscreen panel PCs are built to withstand harsh operating environments and suitable for most work settings.

23.8" ULTRA LIGHT PANEL PC WITH MULTI-TOUCH FUNCTION

The new APC-2334 is a touchscreen panel PC with IP6-level waterproof and dustproof front panel which can be cleaned and sterilized at any time. It also provides a wide array of optional expansion modules to meet different requirements, e.g. interactive public information kiosk, factory automation system (HMI), automatic ordering system in retail industry, and long-term care ward.

COM MODULES

A small form factor Computer-on-Module (COM) offers reliable embedded platform for critical or industrial applications, ready to use, ideal for user customizable and reduce project schedule and cost. Include COM Express Type 6, COM Express Type 7, COM Express Type 10, Eval Carrier Board, Qseven, SMARC.

TIGER LAKE FANLESS BOX PC FOR THE INTERNET OF THINGS

Avalue EMS-TGL fanless box PC is adopted with the 11th Gen Intel® Core™ i3/i5/i7 processors and 2 x 260-pin SODIMM socket max. up to 64GB DDR4 3200 MT/s with just less than 15W TDP, is a low-power and high-performance Computing. EMS-TGL is equipped with a wide array of I/O interface, including 4 x USB3.1, 1 x DP, 1 x HDMI, 2 x COM, 2 x LAN, 1 x 8bit GPIO can also be added according to customers' requirements, giving it high expandability.

TINY MINI FANLESS SYSTEM, NUC-APL & NUC-APL-SLIM. GO SMALL, GET BIG!

NUC-APL and NUC-APL-slim fanless systems built around Intel's Next Unit of Computing (NUC) form factor. Next Unit of Computing (NUC) is a line of small-form-factor barebone computer kits designed by Intel®. Intel® NUC is a small form factor PC with a tiny footprint. Short for Next Unit of Computing, Intel® NUC (say it like "luck" or "truck") puts full-sized PC power in the palm of your hand.

ATX MOTHERBOARD WITH 10TH GEN INTEL® XEON® W-1200 SERIES

Avalue introduced the EAX-W480P, based on Intel®10th Generation Core™ and Celeron® Processors. EAX-W480P, an ATX board with 10th Gen Intel® Core™ i3/i5/i7 and Celeron® SoC Processor, which has a rich IO (6 x USB 3.1 Gen2 and 2.5 Gigabit Ethernet) industrial motherboard requires less expansion application for Automation, Industrial, Automatic Medicine Packing Machine and other embedded applications.

Alcom product portfolio

ELECTRONIC COMPONENT SOLUTIONS	WIRELESS EMBEDDED CONNECTIVITY & SENSORS	WIRELESS & INDUSTRIAL CONTROLS NETWORKING	DISPLAY & TOUCH
LED & SOLID STATE LIGHTING	POWER & EMC	RUGGED MOBILE COMPUTING	EMBEDDED SYSTEMS, AI & EDGE COMPUTING

- Semiconductors
- Frequency & timing
- Power management
- Circuit protection & discretes
- Magnetics
- Passives & electromechanical
- Connectors & cable assemblies
- Photonics

- Wireless modules
- Antenna's
- Sensors

- Routers & gateways
- Wireless embedded computers
- Industrial ethernet and IP variations
- Wired & wireless machine networking
- Antenna's
- Device to cloud solutions
- Connectivity & remote management services
- Networking & connectivity

- Displays
- Touch screens
- Optical bonding
- Total display solutions

- LED light sources
- Optics
- Thermal management
- Power & intelligent controls
- LED modules

- AC/DC power supplies
- DC/DC converters
- Power management modules
- Wireless charging
- E-mobility solutions
- Transformers & power inductors
- UPS
- EMC filters

- Tablets
- PDA's
- Vehicle mount computers
- Accessories

- Computer-on-modules
- Embedded boards
- Industrial PC & automation
- System integration

Bridging the gap between technology, people and business with a human interface.

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Get to know us

ALCOM PROVIDES THE WORLD'S MOST ADVANCED TECHNOLOGIES.

With a team of like-minded entrepreneurs, Alcom will continue to inspire its valued customers to use advanced innovative building blocks in vertical markets. The importance of providing high-level services and a human interface based on specialism, knowledge and design-in expertise will remain key differentiators.

Alcom is positioned for growth. We invite all our customers to discuss their current and future concepts and designs. Let's connect, work and grow together.

MARCH 2021