2022 Avalue Introduction

Linda Chen | 2022/Jan.

AVALUE INTRODUCTION

CONTENT

Products and ODM Design Service,
Market-Oriented Applications

Company Profile

Products/ODM Design Service

Market-Oriented Applications

Manufacturing/DMS Service

Alliance & Partnership

Fact Sheet

2000
Established

Headquarters at Taipei, Taiwan

Branch

New Jersey, USA	Tokyo, Japan
California, USA	Kaohsiung, Taiwan
Shanghai, China	Redhill, UK

2010

Public on TPEx (Taipei Exchange) Market

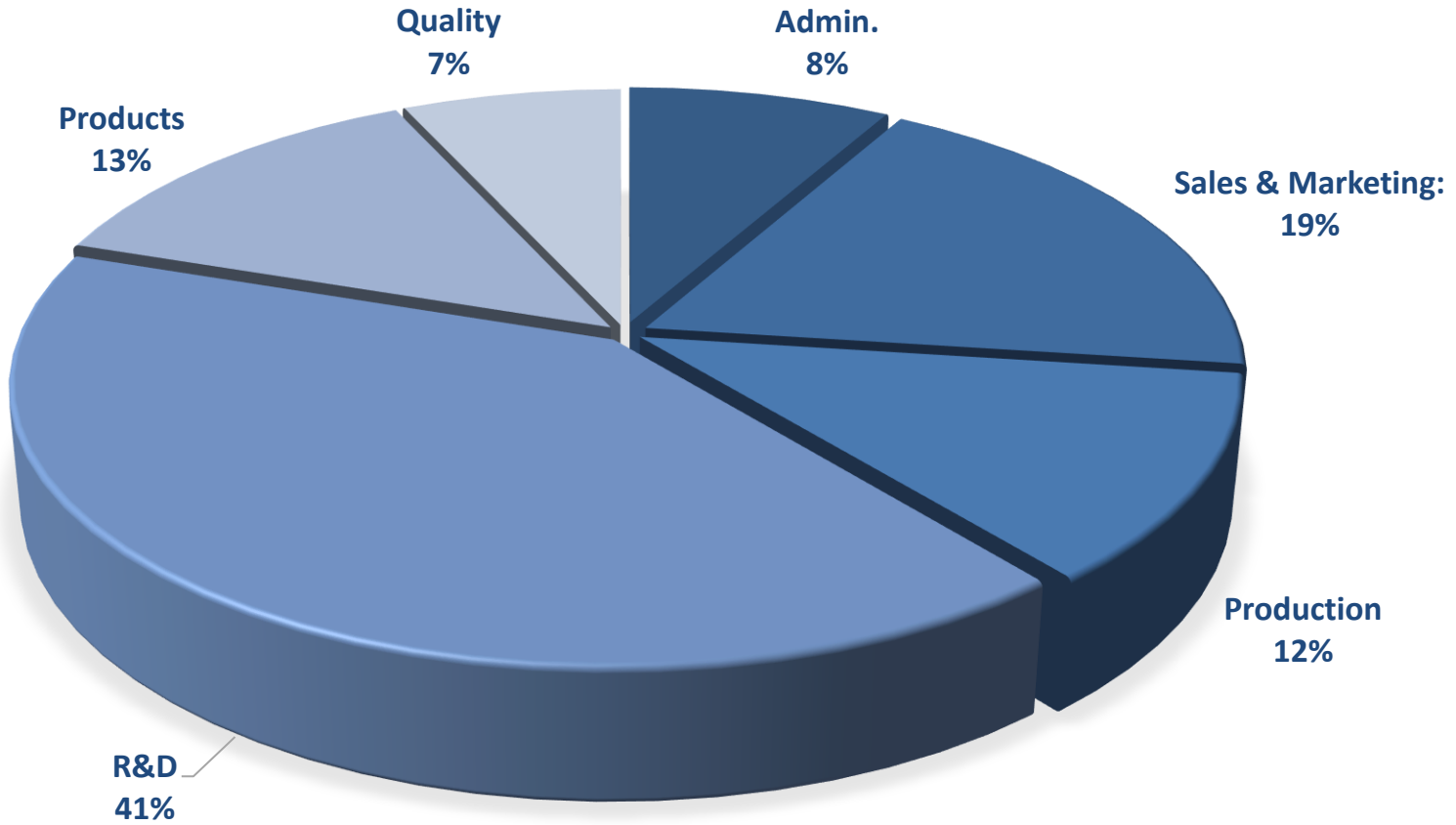
Certification

ISO-9001 : 2015
ISO-13485:2016
ISO-14001: 2015
ISO-45001: 2018

Alliance

Intel IoT Membership
Microsoft IoT Partner

Organization Ratio



2022 Employee (Till 2022 Jan.)

Taiwan HQ: 306, China: 35, Japan: 11

USA/New Jersey: 17, USA/California(BCM): 46

Organization Chart

China Branch
USA Branch
Japan Branch
USA Branch BCM
Taiwan Branch Eversun
UK Branch Bytec

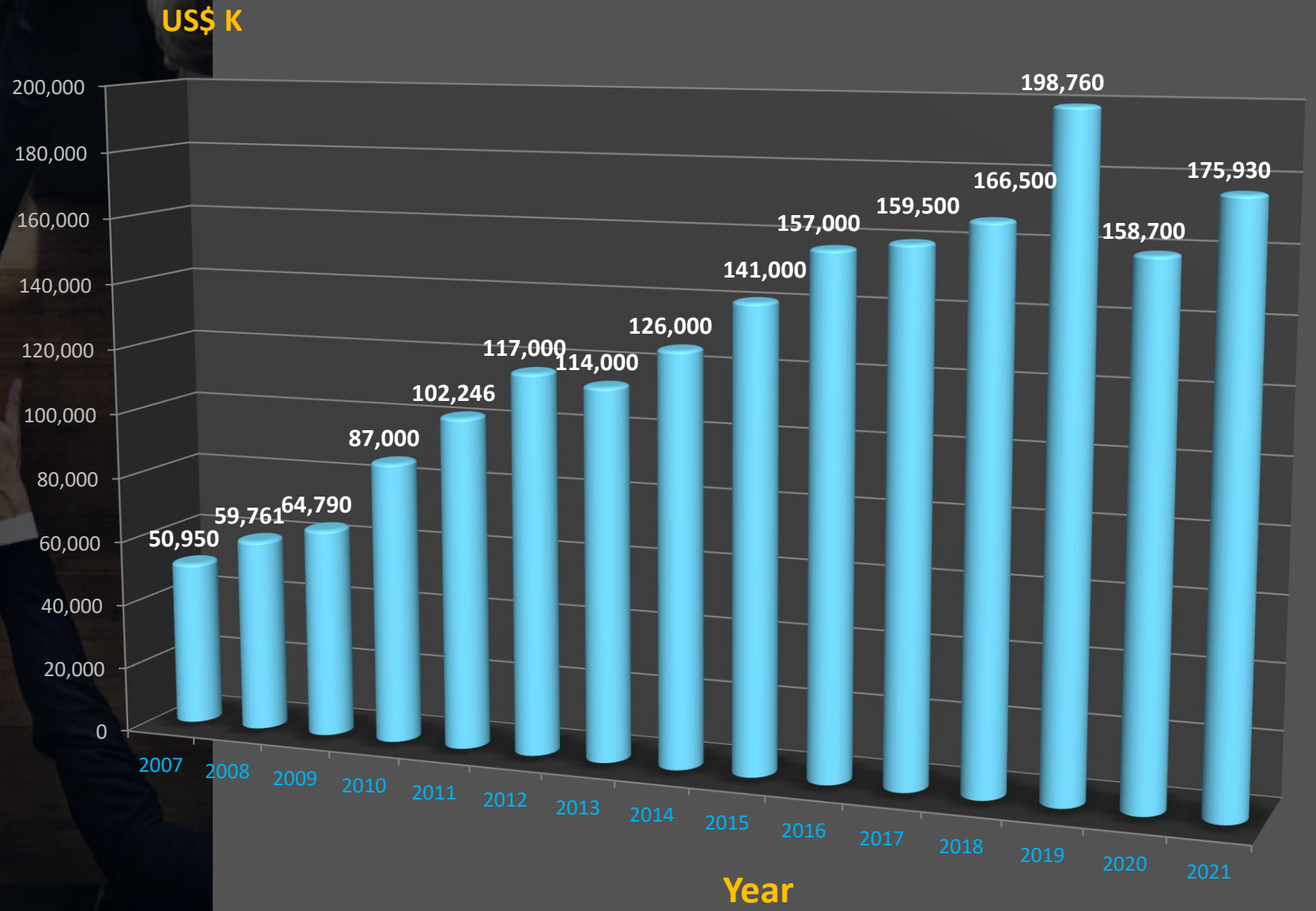
Chairman

Audit

GM

- IoT Solutions
  - Digital Healthcare
  - Smart Manufacturing
- DMS
  - Custom Project Management
  - Custom Vertical Solution
- Products
  - Embedded Computing
  - Applied Panel Computing
  - ARM Embedded
- Sales
  - Disty EUR/APJ/TW
  - Key Account
  - Order Management
- R&D
  - Electronic Engineering
  - System Engineering
  - Mechanical Engineering
  - Software Engineering
  - China R&D Lab.
  - Applied Software
- Operation
  - Quality Assurance
  - PMC & Procurement
  - Engineering
  - DQV
  - Production
- Corporate
  - Administration
  - Finance
  - Marketing
  - MIS
  - Customer Service

Sales Revenue

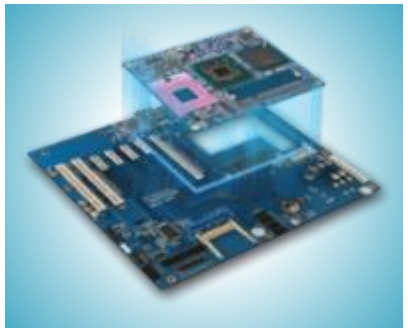


AVALUE PRODUCTS

Tailored to Your Needs

ODM/EMS Design Services	Embedded Computing	Applied Computing	Medical /Healthcare Solutions	Market Ready & IoT platform

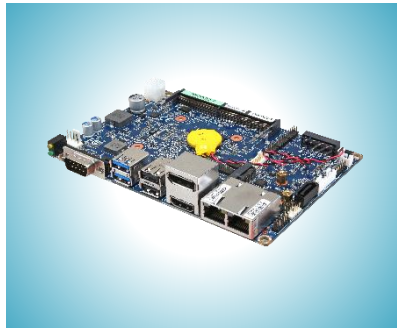
Embedded Computing



COM

Compact Size
30-Day baseboard Prototype Service

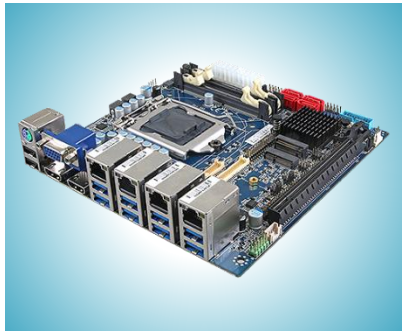
COM Express, Q7



SBC

Low Power
Rich I/O Functions
Extreme Performance

3.5"/ PICO, 1.8"



Industrial Mainboard

Product Longevity
Manageability
Reliable
Flexible

Mini ITX, Micro ATX, ATX

Computing System

Longevity
Reliability
Customization
Modularization

Fanless Compact Ruggedization

DT/Tower Rackmount

Flexibility
Integration
Expandable

HPC Industrial Barebone

ARM

ARM-based
Rapid-Development
Modularize

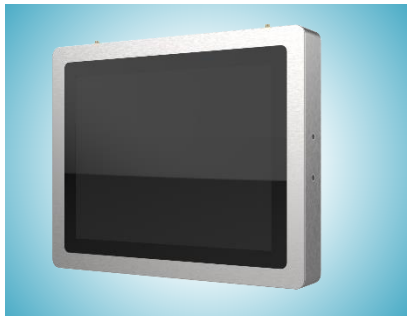
ARM Platform SMARC

Applied Panel Computing

Healthcare Medical

Full HD
True Flat
Multi-touch

HID
APC



Ruggedize

Rugged
Wide Temp.
Water/dust proof

SPC
ODC

Multi-Functional

Slim Design
PCAP
Rich I/O
Light Bar

VNS
SID

Modularized Panel PC

Resistive
Expandable
PCAP
Wide Temp.

ARC

Open Frame

Multi-OS
Fully Flat
Low Cost & Power

OFT

Industrial Touch Monitor

PCAP
Multi-Touch
Fanless & Ultra Slim

OFM
ARC

Medical/Healthcare Solutions

Mobile Station
Tablet

PID/RID
POC/ARM

AIO/Monitor
Recording

Medical Cart
PTZ Camera

Large E Ink
PID/Signage

Open Frame
SBC for HMI

SBC, Open
Frame, UI

GBB Platform
AI Solutions

Nursing Station	Ward	OR	Tele-medicine	Digital Paper	Life/Lab Science	Fitness Rehab	AI

Market Ready & IoT Platform

All in One POS

Multiple OS
Rich I/O
Water/Dust Proof

RiVAR
RiPAC
Rity

Mobile Computing

Rugged Design
Light Weight
Long Battery Life

CAXA0

Digital Signage

Fanless
Multi-touch
Remote Control

Digital Signage
Self-Service

Intelligent Transportation

Longevity
Ruggedization
Modularization
Multiple COMM.

In-Vehicle
Marine
Railway

Smart Manufacturing

Real-Time
Locating/Tracking
Predictive
Maintenance

ARTEMIS

ODM Design Service

ODM Consultancy

Project Management
Organization
Project Administration
Project initiation & Evaluation

System Engineering

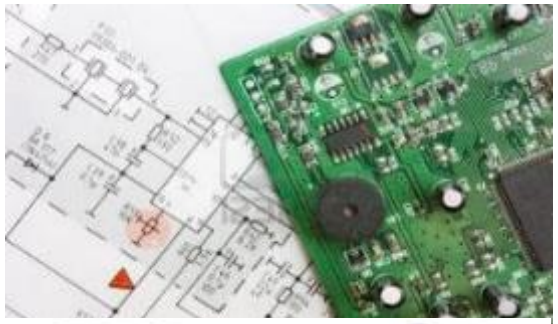
Wide Operation Temperature
Wide Voltage Power Input
IP Standard Compliant
Various Touch Technologies
Various Add-on Peripherals

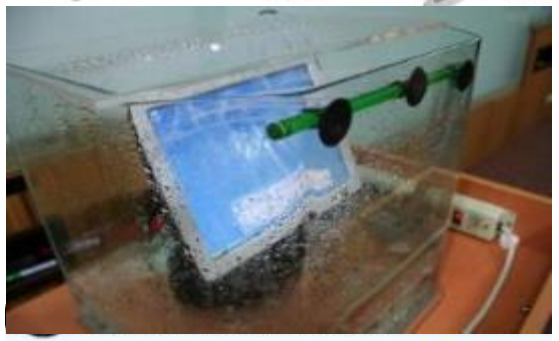
DQV Engineering

Product Vailidation
Compatibility Test
Environmental Test
Reliability Test

Technical Support

Application Engineering
RMA, Warranty
OS Adaptation
Driver, LCD Test
BIOS Adaptation





Electronic Engineering

Schematics/PCB layout
Power Circuit plan
Prototype Fabrication
Digital, Analog, and Mixed Circuit Design

Mechanical Engineering

Industrial Design
Structure Analysis
Rapid Prototyping
CNC, Laser Cutting
Aluminum Extrusion/Die-Casting
Plastic/Metal Tooling
IP Standard Certification
Thermal Simulation

Solution Engineering Service

RISC Based System Integration
Product Dianostic Utility

Focused IoT Segments

Digital Healthcare/ Medical

Smart Retail

Smart Manufacturing

Intelligent Transportation

Digital Healthcare/ Medical

Enabling digital healthcare with Avalue intelligent healthcare solutions from high end imaging, mobility to digital hospital

Medical Equipment	Point of Care	Medical Imaging	Fitness/Rehab Equipment	Digital Hospital
Customized ODM	Bytec Healthcare	GOOMEDI	Customized ODM	avalue Intelligent Solutions

ISO-13485:2016
UL 60601-1

Improve healthcare performance with Avalue Intelligent Healthcare platform, Avalue's products adhere to the strictest medical standards and provide unsurpassed reliability

Solutions designed to fit your

Healthcare Environment

Digital Healthcare/ Medical

"Remedi can design, manufacture, deliver and support our customers, partners and end users within healthcare with complete confidence."

Point of Care Solution

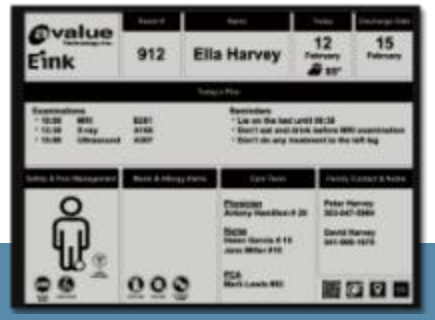
- Bedside infotainment

Digital Healthcare/ Medical

Ultra-low Power, Slim, Light Weight

Communication Board | Digital Signage | eNote | Door Sign | Bedside Card

No Light Pollution: Reflective Display
Digital Online Device: Enable to Integrate with EMR/EHR
Energy Efficient: Low Power Consumption to save operation cost for hospital
Easy Operation: Content “Always-On”



Communication Board for Patient

eNote Tablet

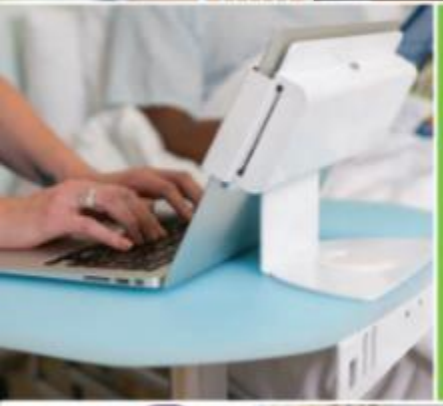
Patient Bedside Care Sign

Digital Healthcare/ Medical

Bytec Healthcare

Point of Care Solution

- Mobile Nursing Cart



"Colour coded MIT-Carts and accessories will complement working environments."

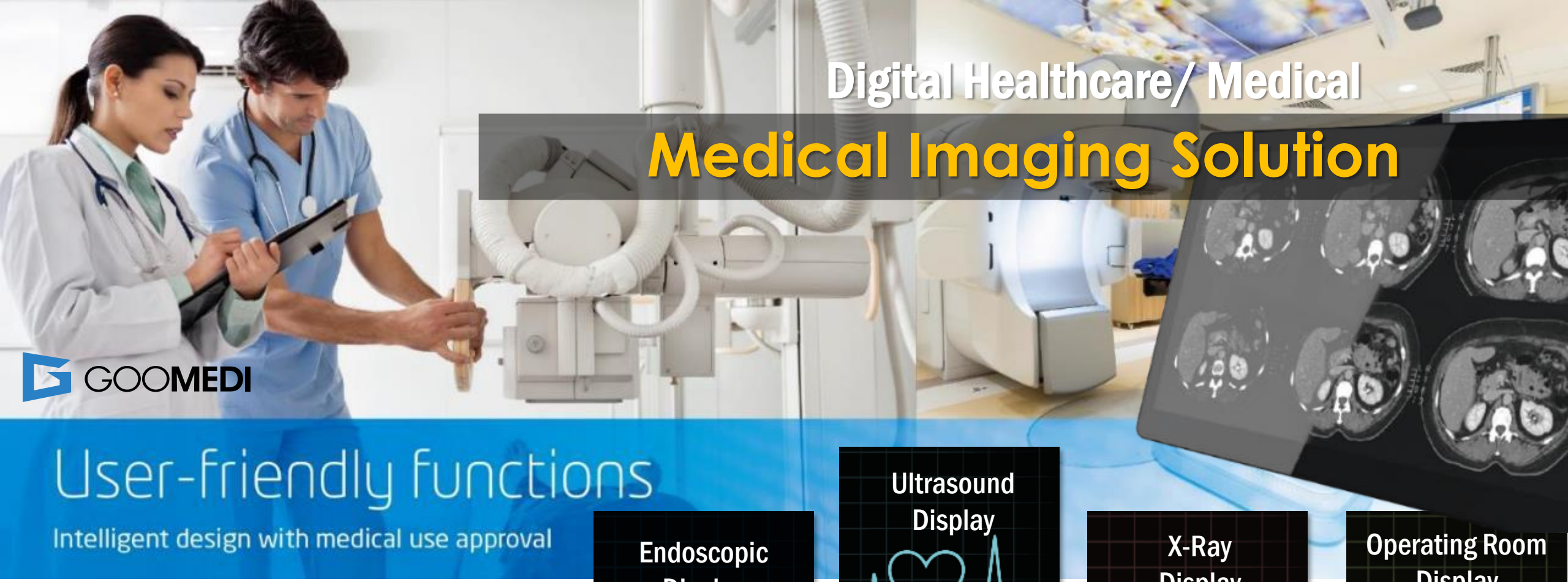
Workstation Carts

Battery Power System

Mounting Solution

Power System Product of the Year

2013 - Elektra Awards



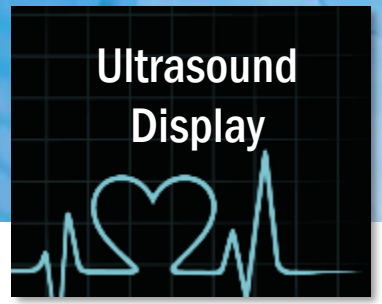
Digital Healthcare/ Medical

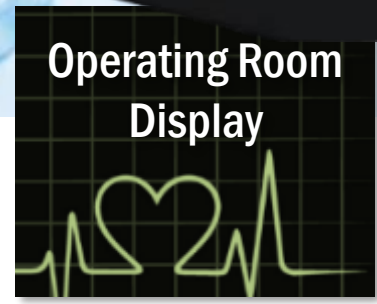
Medical Imaging Solution

GOOMEDI

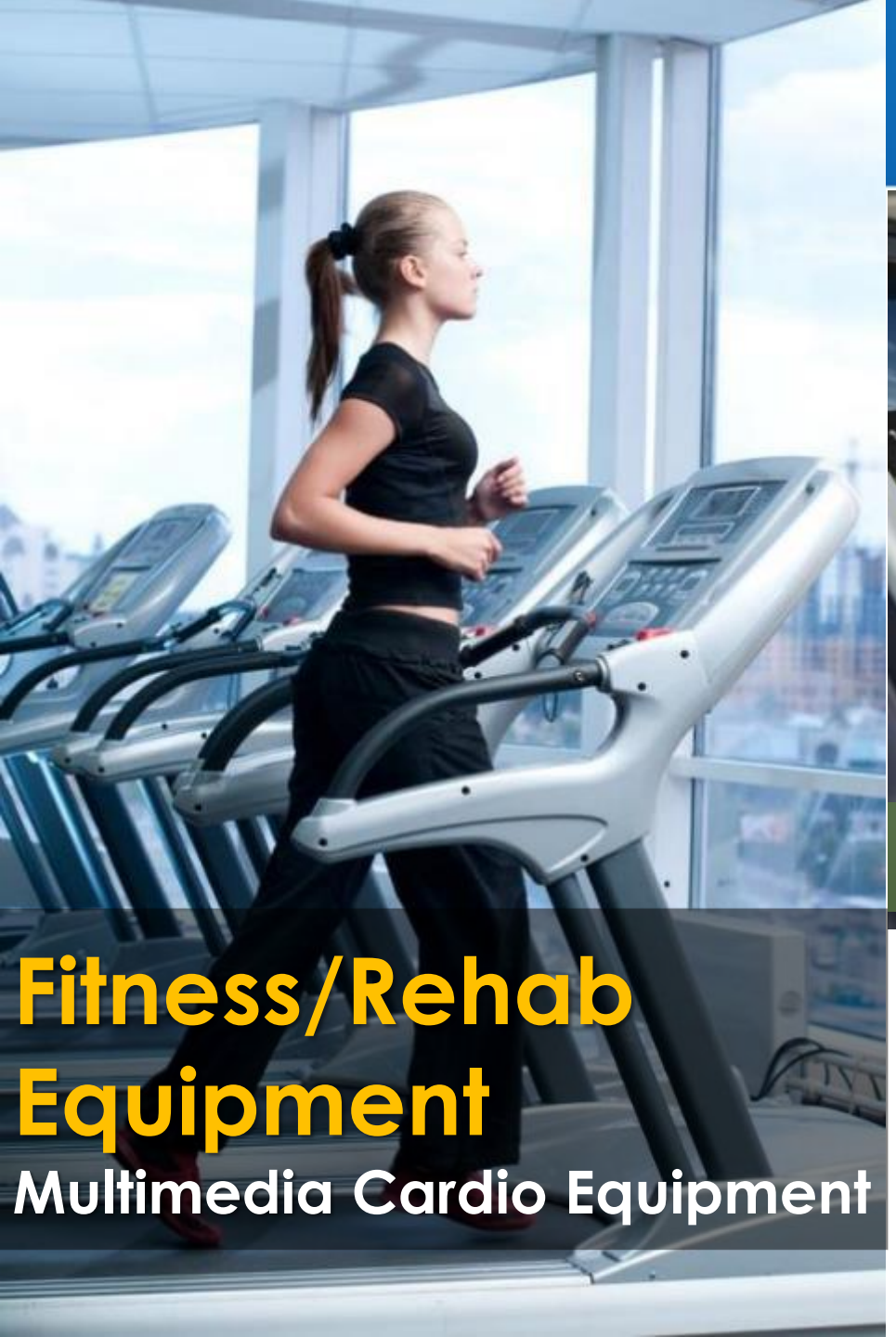
User-friendly functions

Intelligent design with medical use approval





- **Medical** : cUL/UL , IEC/EN 60601-1
- **Imaging** : DICOM Standard, DIN 6868-57, ISO12646



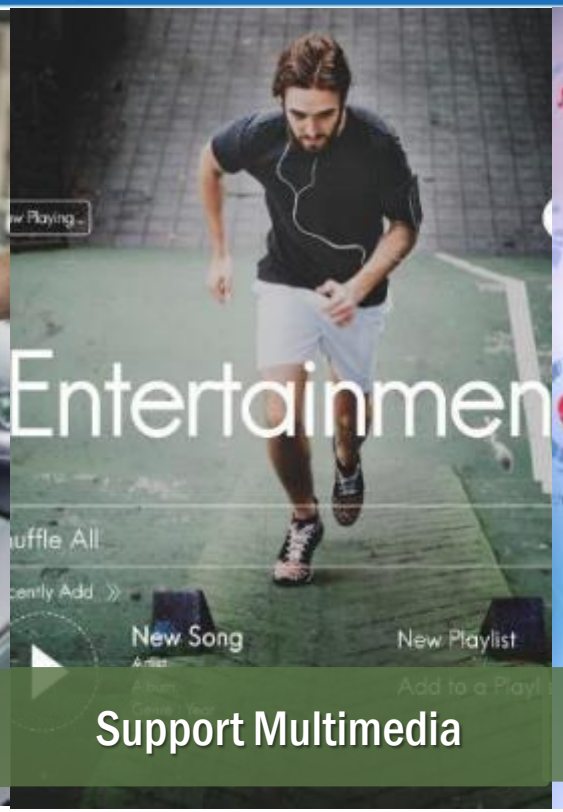
Fitness/Rehab Equipment

Multimedia Cardio Equipment

Digital Healthcare/ Medical

Multi OS Solution-ready open frame terminal

10.1”/15.6”/18.5”/21.5”
Multi OS Supported



Support Multimedia

TV / IPTV/OTT / VOD
Android / iOS
Multimedia

IoT connectivity

Health monitoring
Wearable, external medical devices with blue tooth or MEMS

Digital Hospital Solution

Registration	Outpatient Clinic	Intelligent Nurse Station	Smart Operating Room	Smart Ward
Rehabilitation Center	Postpartum care center	Exam Room	Hemodialysis Center	Smart Pharmacy

For more than 15 years hospital experience, Avalue integrate medical devices with strict medical standards, software, IT infrastructure, communication, hospital logistic and IoT technology for all digital hospital needs.

Digital Healthcare/ Medical

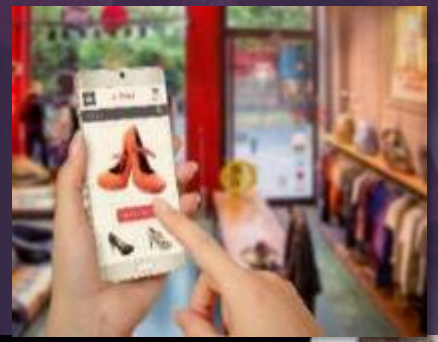
Smart Retail

Digital Signage

Point of Sale

Mobile Solution

Smart Cloud-base Retail



Optimal customer experience through real-time convergence of sensors, analytics & mobility

Retail data paired with analytics can generate new retail insights while creating capabilities that improve merchandising efforts.

Smart Retail - Digital Experience for Customer

Smart Service Solution QSer

Innovative Digital Hospitality

AI Object Recognition Checkout Solution

Detection & recognition of the type of object and price with AI

Smart Manufacturing

Industrial PC

MES/ Human Machine Interfaces

ARTEMIS Real-Time UWB Indoor Positioning

Prediction Maintenance

Covers all areas of industry where automation technologies are integrate including smart manufacturing, Human Machine Interfaces and energy end-to-end solutions and improve control and management of industrial processes

Smart Manufacturing

High Accuracy (30~50cm)

- BLE (4m~10m)
- ZigBee (5~10m)
- WIFI (6~10m)

High Position Stability

- The most reliable and high precision(<50cm) RTLS solution

High Penetrability

- Easy to penetrate through glass / wood / plastic / thin wall

Low Power Consumption

- Long battery life
- 900mA/h for 1 months battery / per second
- 900mA/h for 4~5 months / per 5 seconds

Anti-Interference(RF)

- High frequency 3.1~10.6 GHz
- Wide bandwidth and narrow pulse which can coexist with other RF source

Non-invasiveness to human body

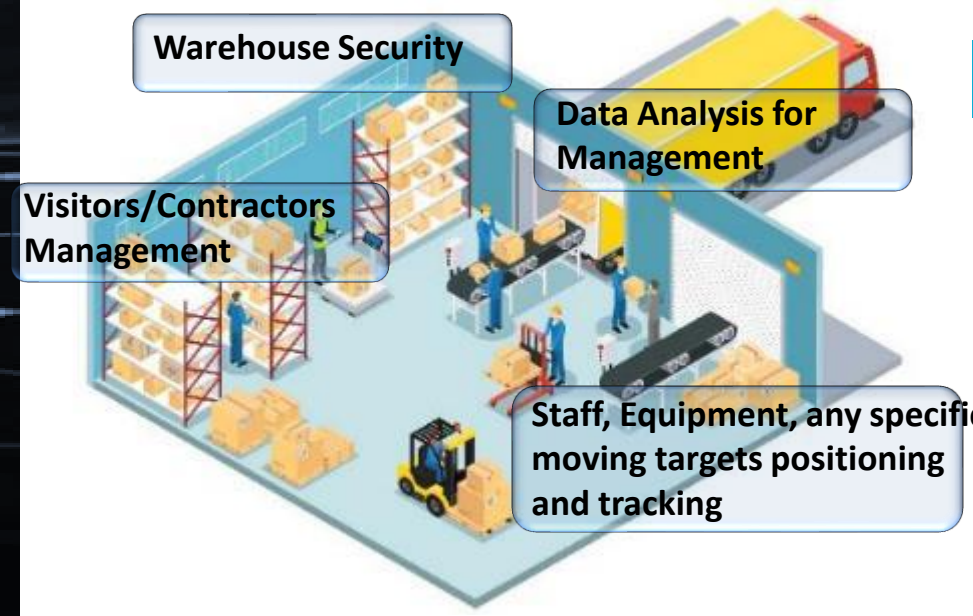
- Low radiation power

High speed communication

- Up to 480Mbps data rate

RENITY ARTEMIS - Real-time Locating and Tracking Solution

Real-Time Location System Ultra-wideband (UWB)



Benefits

- A complete overview in your warehouse in real time. A well-connected warehouse.
- Access control- Enhance security and reduce accidents in workplace via creating geofencing.
- History path and real time location tracking of any moving targets.
- Logistics process optimized based on collected statistics and history records.

Intelligent Transportation

Marine/ In-Vehicle

Driving Behavior Monitoring

Traffic Enforcement

AI Recognition Safety Warning

Enable tomorrow's innovative IoT-connected ITS technologies to integrated Railway, Marine, Logistic and fleet with regulatory-compliant solutions

Intelligent Transportation

AI Recognition Traffic Solutions

Avalue traffic enforcement system is an automated solution to identify traffic violation and recognize vehicle license plate number to improve road security not interrupting traffic flow

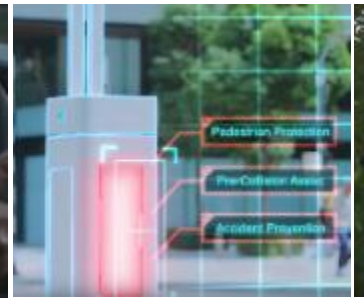
Parking Enforcement Solutions

Features & Benefits

- REMOTE CONTROL
- REAL-TIME MONITORING
- PREVENT TRAFFIC VIOLATION
- EFFICIENT TRAFFIC ENFORCEMENT
- REDUCE TRAFFIC CONGESTION

Smart City

AI Recognition Safety Warning



- **Pedestrian Crossing Warning**
  A warning signal at no traffic light junctions
- **Collision Warning**
  Provide vehicle deceleration warning at no traffic light junctions
- **Violation Warnings and Reports**
  Reduce illegal parking and traffic congestion
- **Driving Behavior Monitoring**
  Enhanced bus fleet safety and its management

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IoT-Ready Solutions

Smart Retail

- QSer Smart Service
- AI Object Recognition Checkout Solution

Digital Healthcare/ Medical

- **Nurse Station** (Digital Board, eNote, Mobile Cart)
- **Smart Ward** (Beside Terminal, Room info. Display)
- **Fitness/Rehab Center**

Smart Manufacturing

- ARTEMIS Real Time Indoor Positioning and Tracking Solution - (UWB)

Intelligent Transportation

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

avalue Intelligent Solutions

Avalue Plant Location

Taipei Headquarters		Admin./Finance Sales/Marketing Research & Development Laboratory
Taipei Li-De Factory		Supply Chain Management Warehouse RMA center Value Added MFG Service
Taoyuan Compal Factory		PCBA System Assembly
Kaohsiung Eversun Factory		EMS Service PCB/System Assembly PCBA Test
European Service Centre		RMA/Logistic Center

Eversun Factory Capacity

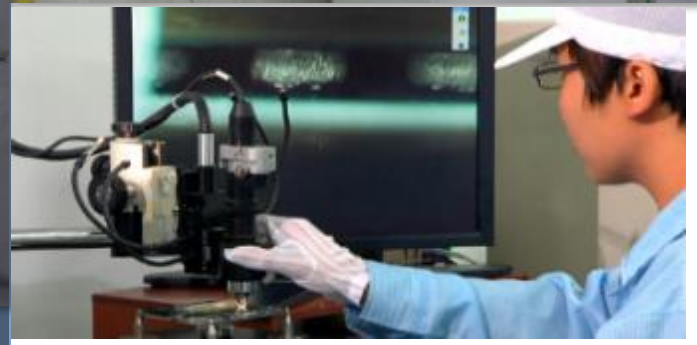
Capital (US$)	6 Million
Space	10,000 Square Meter
Employee	340
Certificate	ISO 9001/14001 / 13485 / IATF16949
Capability	5 SMT lines
	2 DIP lines
	System/Solution Assembly
	Component Engineer
	Material Purchasing & Storage

Manufacturing

SMT 5 Lines, DIP 2 Lines, System 3 Lines

- ISO-9001 : 2015
- ISO-14001: 2015
- ISO-13485:2016
- IATF 16949:2016

20 years manufacturing service experience, 10,000 sq. meter in Kaohsiung



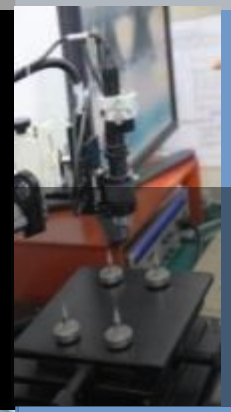
Made in Taiwan

Green Product Management System

Assembly/QC Processes

Assembly Line

- IPQC
- IR Reflow
- 100% Visual Inspection



In-circuit test (ICT)/ Function test

- Quality Control
- AOI/Visual Inspection

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One Stop DMS Services

Project Management

- PLM/EOL/ECR Management
- Revision Control

Component Engineering

- Component Cost Reduction
- Shorten Lead Time

Industrial Standard Certification

- ISO-9000/14000/13485
- UL/TS-16949

Global Logistic Supports

- Supply Chain
- Inventory
- Warehousing
- Materials Handling

Professional DMS

- Consolidation of ODM and EMS
- Design Manufacturing Services

Strategic Alliance

PARTNERSHIP SYNERGY

Microsoft

Leading platform of "**Mobile First, Cloud First**" Cross-platform services, transform into Internet of Things with Azure Enterprise cloud

COMPAL

Procurement Power (Supply Chain) , Technology Support, Sales Channel, Design Quality Verification and Manufacturing

intel IoT Solutions Alliance

Provides the building blocks to develop hardware and software for the Internet of Things

avalue Technology Inc.

Thank You For Listening