Panel Discussion III
Realizing Advantech Design & Manufacturing Services (DMS)

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Dec. 13th, 2019
BIG SALE
SAVE 25-50% on sale and clearance styles
Advantech’s relationship and collaborative working model can adjust to different needs.
Design & Manufacturing Services (DMS)

- DMS aims at providing the best solution to match your vertical market requirement
DMS – The Road to Success

- Feasibility Study
- Cost Analysis
- Risk Assessment

RFQ

Proposal

Development

Production

- Present Technical Spec
- Submit Formal Quotation

- EVT
- DVT
- PVT

- Compliance Certification

- Fulfillment
- Product Delivery
- Logistics
- Service

Feasibility Study
Cost Analysis
Risk Assessment

Present Technical Spec
Submit Formal Quotation

EVT
DVT
PVT

Compliance Certification

Fulfillment
Product Delivery
Logistics
Service
Manufacturing  Ships & Logistics  Automotive MFG  Oil/Gas  Pharma/Hospital
USB Usage in Industry

Up to 50% of USBs contain malware
WEDGE 1

Modular 2

Status: WIP

Display:
16:10
1980 x 1200

Monolithic
USB-Centric
Substantial Stability
1A "Laser-Heist"

2A Competition Symantec

3A "Unseen Security"

2B "Galaxy Scan"

2B "No Comparison"

3B "Secure Anywhere"
The ICSP Neural USB Scanner

- 6.4" LCD, 1400 nits
- -20 ~ 80 °C Wide-temp
- 3-Axis Sensor
- MB, Storage, Fan-cooler
- 4-Finger P-CAP Touch
- Cone-Shaped Metal plate
- LED Light Ring
- RGBW (80 GPIO)
- IP64 Waterproof
- USB3.0 Connector
6-month from Concept to MP

- Planning
- EVT
- DVT
- PVT
- MP

Collaborative Design
ID Scratch Function block
Key part selection
Project Schedule

Design Concept
ID Concept & Product Proposal
Project Kickoff
EVT Exit Meeting
DVT Exit Meeting
Product Pilot Run & Release

Quick Design & Adaptabilities
EE, ME, Thermal and Display Integration
CNC & Anodizing, Cables, LED board
DQA Function & QA Lab Validation
QC Flow Control & Vendor Quality Audit
Space, Heat, & Thermal Simulation

- LCD Heat
- MB TDP 15W
- Space Limitation
- Air flow Simulation
- Chamber Simulation
- Optical Design
The Programmable LED RING Status Indicator

LED Design Concept

Light Conductive Design & Mold Flow Analysis

LED-Ring/USB-Cone Fitting

Program Arduino Code

ARDUINO
The Waterproof USB3.0 & Cone Design

- Cone Design Concept
- Waterproof Design
- USB 3.0 Design Concept Scratches
- Selection from Variety of USB 3.0 Suppliers

IP64 Compliant
Everything to Shorten Developing Schedule

Apple-like CNC Texture

CAD Design

3D Printing

CNC Mock-ups

Early Assembly Validation

Apple-like CNC Texture Early Samples
OTS SBC for Early Verification & L/T
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Global DMS Footprints

Supports from both Advantech HQ & Local Teams

Regional DMS Design Centers

- Taipei, Linkou Campus (ACL)
- China KunShan AKTC (ACN)
- USA, Irvine & Cincinnati (ANA)
- Europe, Munich (AEU)
- Japan, Fukuoka (ATJ)

Vertical DMS Sales

- Medical Equipment Builder, Europe (MEB)
- Gaming Solution Sector (Global)
- Robot Industry Automation, Japan (ATJ)

Vertical Focused DMS Services & Product Divisions

- IoT Appliance & Solutions (IAS)
- Medical Equipment Builder (MEB)
- Intelligent Display Computing & ARM DMS
- Panel Computing & Tablet
- Automation & Transportation
- Gaming DMS
Fully Leverage OTS Embedded Platforms

Industrial Peripherals
- Flash & Memory
- Display

Intelligence Software Built-in
- Windows
- iManager
- WISE-PaaS/DeviceOn

Edge to Intelligence Solutions
- WISE-PaaS/DeviceOn

Small Form Factor
- Arm-based Platforms
- Industrial Motherboards

Embedded Systems
- Embedded PC
- Fanless System

Vertical Focused Systems
- Digital Signage
- In-Vehicle, Railway

Edge AI Solutions
- Modules
- Inference System
- Edge SRP

SW Distribution & Cloud
- WISE-PaaS
- IoT Edge Intelligence

Embedded Products
- COM
- SBC
- MI/O

Wireless Solutions
- Modules
- Sensor Node
- ePaper
- Gateway

Embedded PC
- Fanless System
- Digital Signage
- In-Vehicle, Railway
- Modules
- Inference System
- Edge SRP
- SW Distribution & Cloud

Intellectual System
- Arm-based Platforms
- Industrial Motherboards
- Wireless Solutions
You have the vision? We can make it a reality!

- Voice Recognition
- Facial Recognition
- Ambient Lighting
- Object Detection
- Acoustic Performance
- Augmented Reality
- Iris Scanning
- Gestures
Co-Creating the Future of the IoT World