

Leading Solution Provider

IEI Company Profile



Solution innovator, Embedded your life



Member of ICP Group



IEI, The Leading Solution Provider

■ Overview

- ICP Group Overview
- IEI Company structure & Organization
- IEI Working and Control Process

■ Core Competence

- Products for Solutions
- Product Development Process
- Product Development Capability
- Product Quality Assurance

■ Manufacturing Resource (provided by ICP)

- Manufacturing Process
- Manufacturing Capability
- New Manufacturing Site – China

■ Worldwide Service





IEI Overview



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ICP GROUP

威達電集團

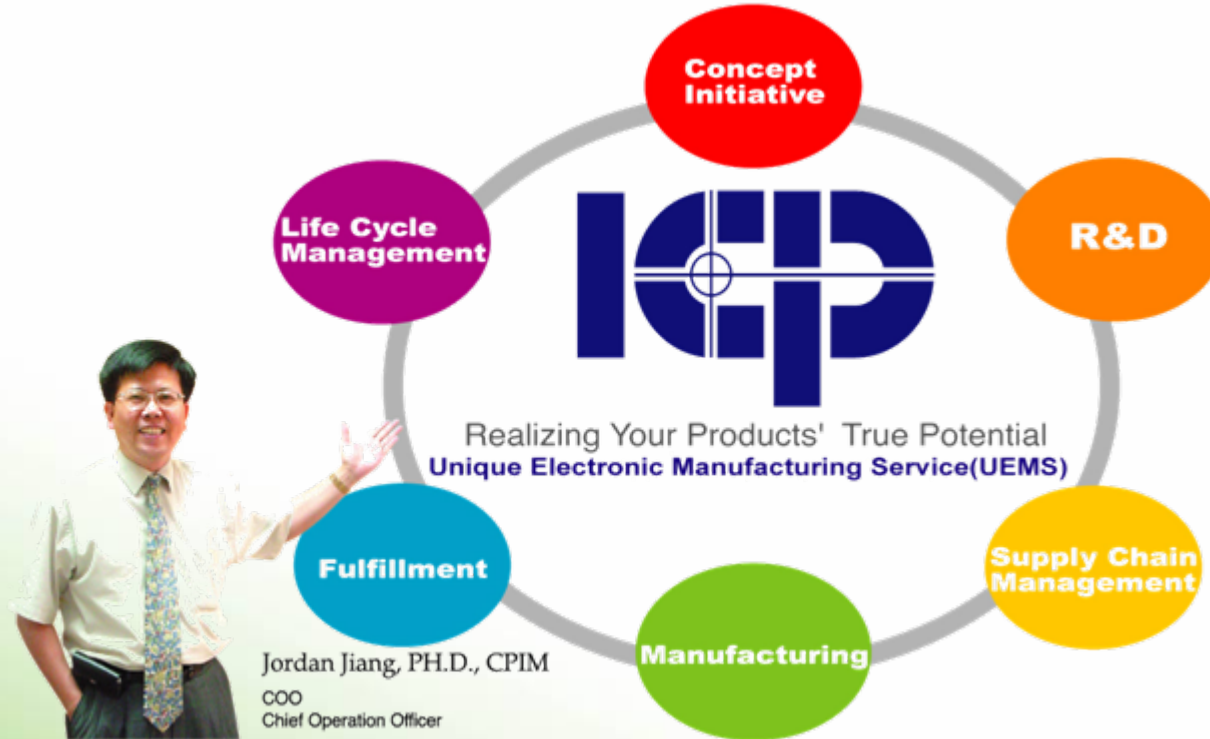
ICP

- **Founded: 1997**
- **Capital: USD 57 M**
- **Employees: 1084**
(Taiwan: 444; China: 640)

IEI

- **Founded: 2005**
- **Capital: USD 14.5 M**
- **Employees: 319**
(Taiwan: 223; USA: 23; China: 73)

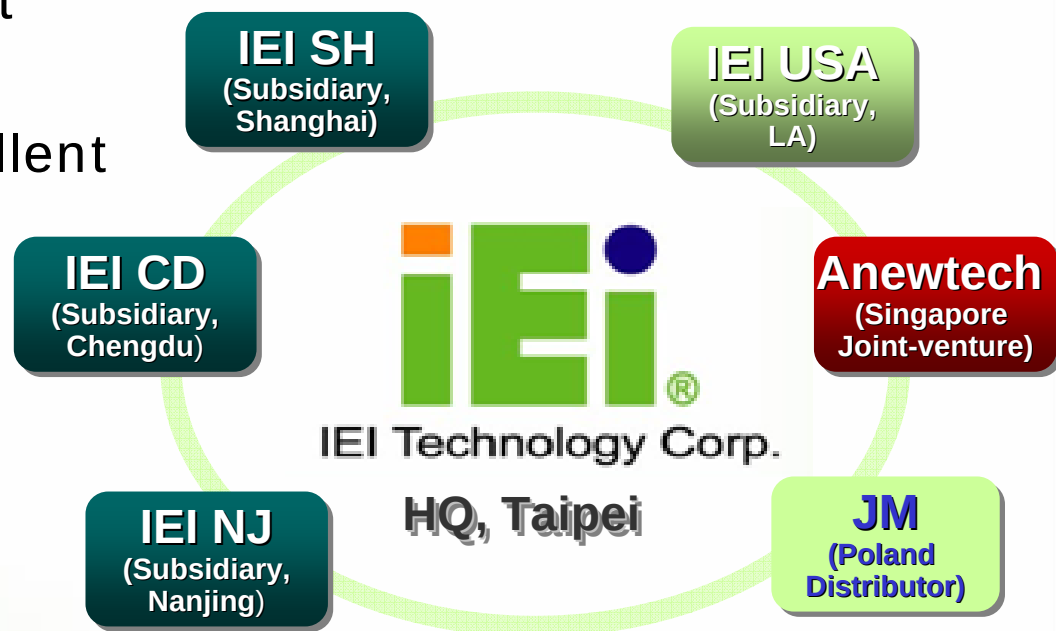
ICP is ~
a middle size Industrial PC and Automation expert
providing Unique EMS services
to select industries worldwide



Innovate with Excellence

Excellence implies

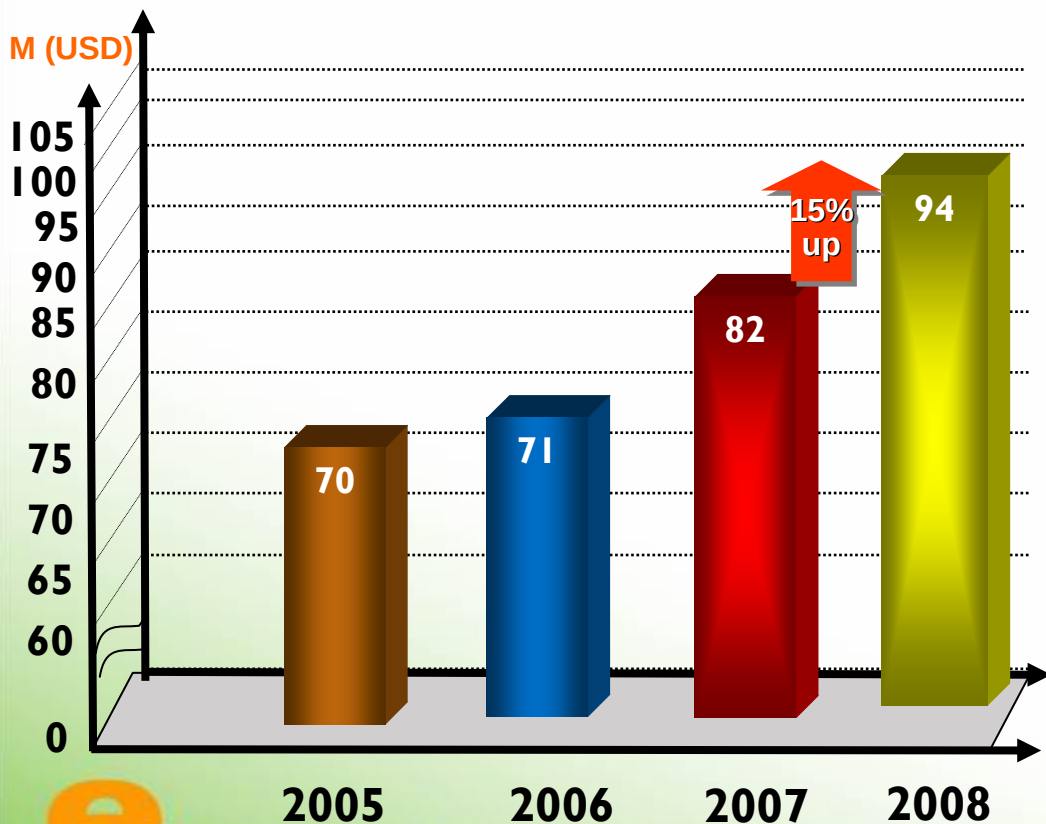
- IEI **products** are excellent
- IEI **services** are excellent
- IEI **sales** are excellent
- IEI **staff** are excellent
- IEI **systems** are excellent







➤ Becoming a Global Leader as an e-Solution Service Provider and One-stop Shopping Center

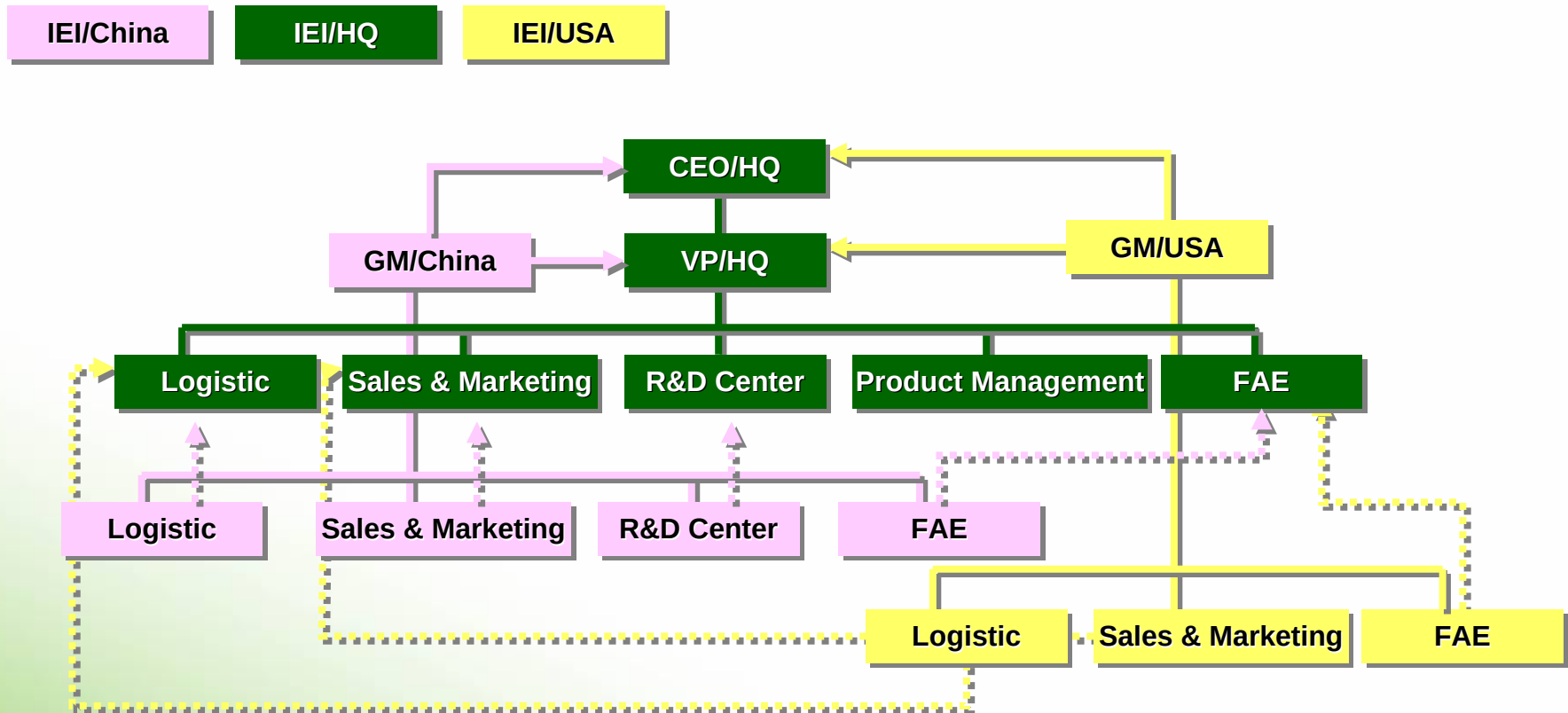


Established	2005
Capital	USD 14.5 Million
HQ	Taipei, Taiwan
CEO	Mr. Teddy Kuo
Support Center	IEI Technology SH Corp. IEI Technology USA Corp.
Worldwide Employees	319 (Taiwan: 223; USA: 23, China: 73)
Revenue in 2008	USD 94 Million

* Revenue is estimated for fiscal year 2008



➤ Sales and Marketing Driven Structure ~ Focus on Service



IEI Technology Corp. is a leading industrial computing solution provider. IEI has developed over 400 products including industrial computer boards, workstations, panel PCs, system solutions and peripherals. With an innovative R&D team, professional sales force and high-quality assurance, IEI always helps customers to lead in the industrial computing market. We will continue promoting the IEI® brand, enhancing distribution channels and providing OEM/ODM service.

Full Range & Cutting-edge Product Technology

Component Level



System Level



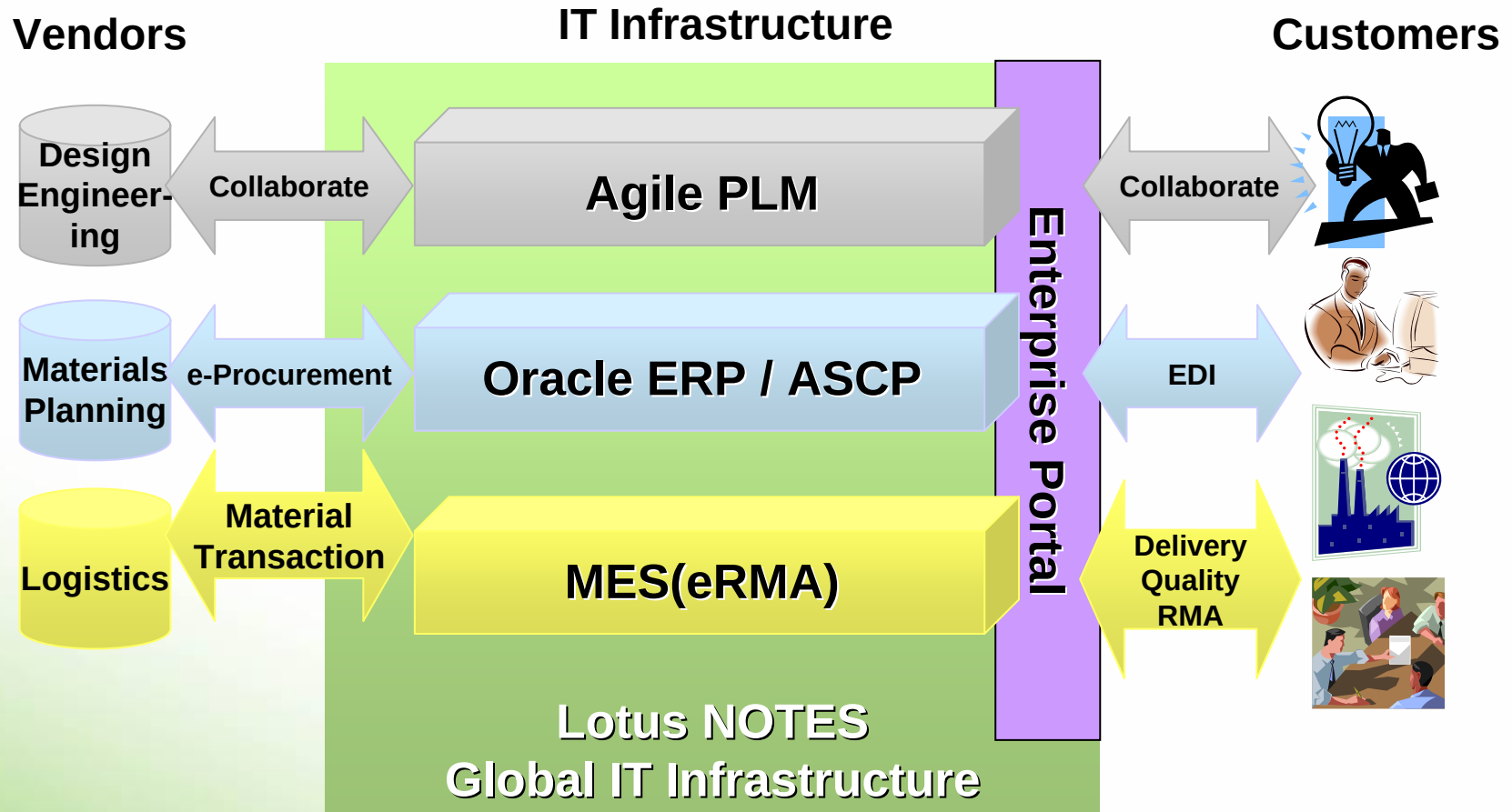
Appliance Level



Full Vertical Product
Integration

Full Compatibility

Versatile Application Solutions



Entertainment

- Auto Computer
- Lottery Terminal
- Multimedia



Your e-Solution partner

Channel Partner

Value-added Partner



Medical Systems



Transportation

- Auto Computer
- GPS/AVL Systems
- Navigation Systems



Equipment Manufacturing

- Factory Automation
- Industrial Control
- Test & Measurement



Business

- POS
- Kiosk
- Phone Terminal
- ATM



Communications

- VPN
- Firewall
- Gateway Device



Core Competence - Products for Solutions -



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Server Grade



PICMG 1.3 Series

PICMG 1.0 Series

PICO/PIC0e Series

PCISA Series

Backplane



Industrial MB

Mini-ITX



QSEVEN

5.25"

EPIC

3.5"

PC/104

ETX/COM EXPRESS/Q7

Embedded OSes – Microsoft CE & XP Embedded, Linux





Embedded System

▶ MiniITX



ECK-xxxx

Mini-ITX Motherboard

▶ EPIC SBC



ECN-xxxx

EPIC Embedded board

▶ 3.5" SBC



ECW/IBX/DIN-xxxx

3.5" Embedded board

▶ Others



Specifiable application

Industrial Chassis

▶ Rackmount Chassis



RACK-xxxx

Full/Half Size CPU Card
ATX/MicroATX/Mini-ITX Motherboard

▶ Compact Chassis



PAC-xxxx

Full/Half Size CPU Card
MicroATX/Mini-ITX Motherboard

▶ Embedded Chassis



EB/EBC-xxxx

Mini-ITX Motherboard
5.25"/EPIC/3.5" Embedded board



IEI Technology Corp.

Industrial Data Collector/Server

www.ieiworld.com

- Low power consumption Design
- Fanless Design
- Reliable Module Design
- Flexible Mounting
- Compact Size
- Best-fit for real-time system
- Computing Power
- Rich communication functions
- Isolated protections :
RS-232/422/485, DI/O, is up to 2000VDC
CAN bus is up to 3000VDC



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Company Profile

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Service Automation

Solution I

Display System

Light Industrial Market PPC



1. AFOLUX Panel PC

- 5.6"~19" IP64 all-in-one panel PC
- Wireless connectivity
- Bluetooth communication
- HSDPA mobile wireless connectivity (optional)
- Touch Panel



2. AFOLUX Vertical Market Panel PC

- 3 series - KIOSK application
- 4 series - In-wall application
- 5 series - Fan-less dual core PPC
- 6 series - 26"/42" Large size solution
- ACT series - RFID solution



3. Transaction System

- Light POS Solution (AFL-12B-LXPOS/AFL-15A-LXPOS)
- Mini POS Solution (EP-308A Mini POS)
- Hinge Design POS (EP-16x POS)
- Modular Construction POS (EP-26x POS)

Heavy Industrial Market PPC



1. Industrial Panel PC

- PPC-27 series Compact Size PPC
- PPC-37 series Slim Type PPC
- PPC-51 series Upgrading High Performance PPC
- PPC-53 series Multiple Expansion Interface PPC



2. Industrial Vertical Market Panel PC

- Wireless Panel Mount PPC (WIDS series)
- UPS PPC (UPC series)
- Full IP67 PPC (SAILOR series)

Service Automation

Solution II Display Monitor

Light Industrial Market Monitor



1. AFOLUX Monitor

- AFOLUX Touch Monitor
- AFOLUX AR/AG Tempered Glass Protection Monitor
- 7"-42" TFT LCD Monitor
- VGA/DVI/Component/Composite/S-Video multiple video inputs
- Picture-in-Picture (PIP) function
- Built-in speakers
- Ambient Light Sensor

Heavy Industrial Market Monitor



2. Industrial Display Monitor

- Industrial Display Monitor (DM series)
- Stainless Steel Display Monitor (ISDM series)
- Sunlight Readable Monitor (SRM Series)
- Wide Temperature Display Monitor (TDM series)
- Multimedia Display Monitor (MDM series)
- Open Frame LCD Monitor (LCD-KIT series)
- Touch Screen

Solution III Display Workstation



- Industrial Workstation (WS series)
- Rack mount Workstation (RPC/EC series)
- Mini Workstation (MPC series)

Solution IV Display Console



- All-in-One Display Console (ALOHA series)
- LCD KVM Rack Console (LKM series)

◆ RISC-Base Panel PC



	4.3	5.7"	7"	10.4"	15"
Model Name	IOVU-430M	IOVU-570M IOVU-571N	IOVU-700M IOVU-751R	IOVU-1000M IOVU-1051R	IOVU-1500M
CPU	XScale® PXA270 416 MHz	Xscale® PXA 520 MHz Winbond Nuvoton 200 MHz	Xscale® PXA 520 MHz Alchemy AU1250 500 MHz	Xscale® PXA 520 MHz Alchemy AU1250 500 MHz	Xscale® PXA 520MHz Alchemy AU1250 500MHz
Memory	128MB	128MB	256MB	128MB	128MB
Feature	1. Projected- capacitor type multi touch screen 2. Built-in WiFi 802.11b/g function 3. GPIO and CAN bus control	1. Compact form factor 2. Built-in WiFi 802.11b/g function	1. PoE available 2. MPEG 1/2/4 support 3. Built-in WiFi 802.11b/g function	1. The whole plane touch panel PC 2. Hardware decode MPEG 1/2/4, WMV9	1. Large display 2. Built-in digital input/ output function 3. Dual display function



◆ RISC Single Board Computer



	MIPS-based	ARM-based
Model Name	KAMIO-1251	KAMIO-2701A/2702A KAMIO-2703 KAMIO-CB01A
CPU	Alchemy AU1250 500MHz	Xscale PXA270 520MHz
Feature	Hardware decode MPEG 1/2/4, WMV9	1. 802.11b/g available 2. CF/SD card expandable 3. Wide temperature tolerance

**Multiport Serial
Communication Card**



**I/O
Communication Module**



CAN Communication Card



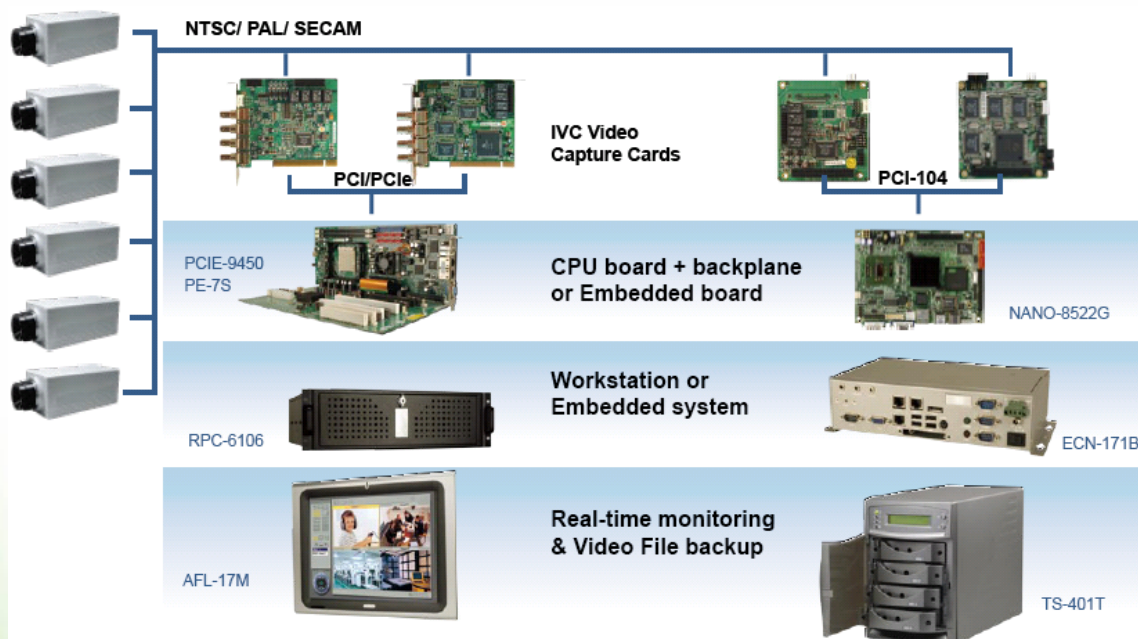
**RFID TAG Reader
Device & Module**



Low-Profile PCI Marketplace

- POS (Point-of-Sale) system builders use the low-profile dual serial card!
- Low-profile PCI cards —parallel and serial —are great for all-in-one systems like the IBM NetVista X40.
- Low-profile cards fit in 2U industrial rack-mount servers.

Multiple Card Support



Video/Audio processing capability

Model	Codec	Video/ Audio Capture	Video Capture	Chipset
IVC-168G / IVC-268G / IVCE-268G / PM-6814 / PM-6844	N/A	Yes	TW	Techwell TW6805
IVC-100 / IVC-200 / IVCE-8784 / PM-1056	N/A	-	Yes	Conexant BT8784
IVC-8371 / PM-1059	Encoder Decoder	Yes	-	Pentamicro AT2401
IVC-368G-4CH	Encoder	Yes	TW	Softlogic Solo6010+ Techwell TW6805

Argus Digital Video Surveillance Software

- Quick Search and Event List Search in Playback
- DI/DO/PTZ Control
- E-map, Showing Camera's Location and Background
- E-mail Alarm System once Triggered by Motion Detection
- Continuous and Event Triggered Recording
- Supports Different Speeds in Playback
- Professional surveillance software only support IVC-168G/268G, IVCE-268G, PM-6814/6844, VITO-100/350 series and includes free, so you quick and simple assembly DVR System



Digital Signage Player and Panel Solutions



A. Standalone Player

RISC-Based

A. HD (1360x768) Output

- Allow auto-scale output content 720 x 480 up to max. 1360 x 768
- Fix template with one picture/video zone and one crawl or scrawling banner
- Remote update content or management via LAN or Wireless LAN
- Free bundle iSignager AdExpress for Frame software



B. Full HD (1920x1200) Output

- Support Full HD (1080i/p) contents up to 1920 x 1200
- Ability to connect display on full resolutions via outputs S-video, DVI, VGA and Composite
- Support live video input
- Network management and remote update contents via LAN or Wireless LAN



X86-Based

A. Intel® Atom™ Platform

B. Intel® Q35 Platform

- Built-in VGA/ HDMI/ S-Video/ Composite connectors suitable for various display devices
- Built-in TV card slot for TV extension (Digital/ Analog TV)
- Built-in LAN or Wireless LAN for remote communication
- Content design software "iSignager AdDesign V4.x"
 - Multiple media zone display
 - Multiple media format support, including flash, picture, video, html, text/ photo banner, and audio
 - Support multi format content display in one media block
 - Content preview function



B. All-in-One Signage Panel PC

RISC-Based

A. Single-media zone display

- Small size (7", 8", 10" and 15") all-in-one RISC-based display, the ideal models for space-saving digital signage application
- Built-in LAN for remote control and access
- Support SD card or 2.5" IDE HDD as the storage device
- Bundle software "iSignager AdExpress for Frame" offers fixed template content, including 1 x picture/video zone, 1 x crawl banner and 1 x digital clock



B. Multi-media zone display

- Network management and remote update content via LAN or Wireless LAN
- Free bundle software iSignager AdExpress and iSignager AdDesign
- IP 64 waterproof and dustproof Front Panel
- The same content extend to the second display with auto-scaling up to 1920 x 1200 (for iSignager-LCD Series only)

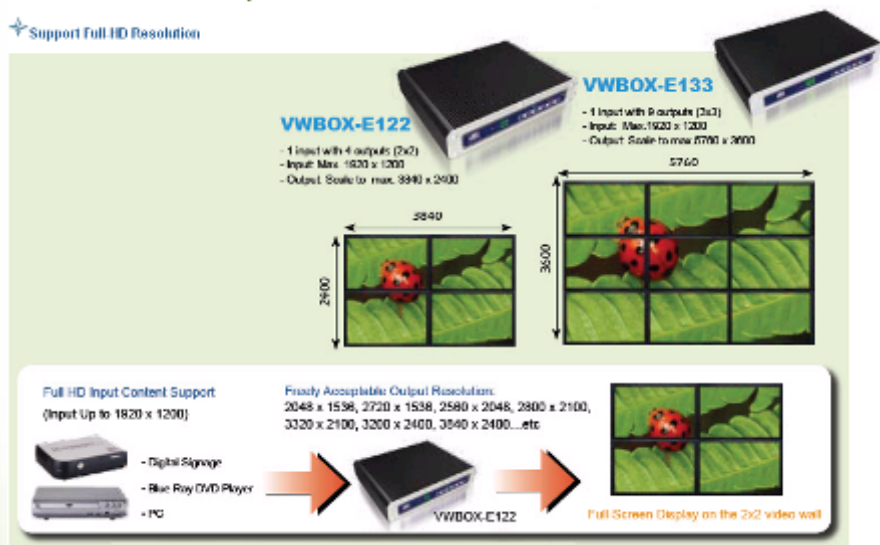


Video Wall Controller

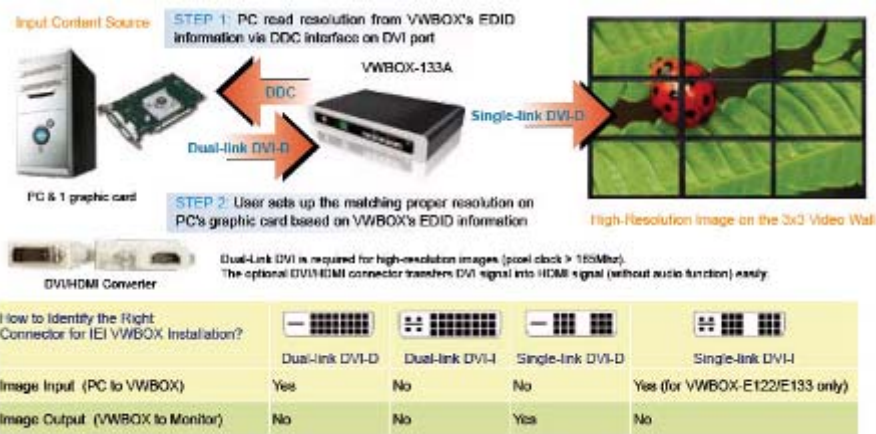
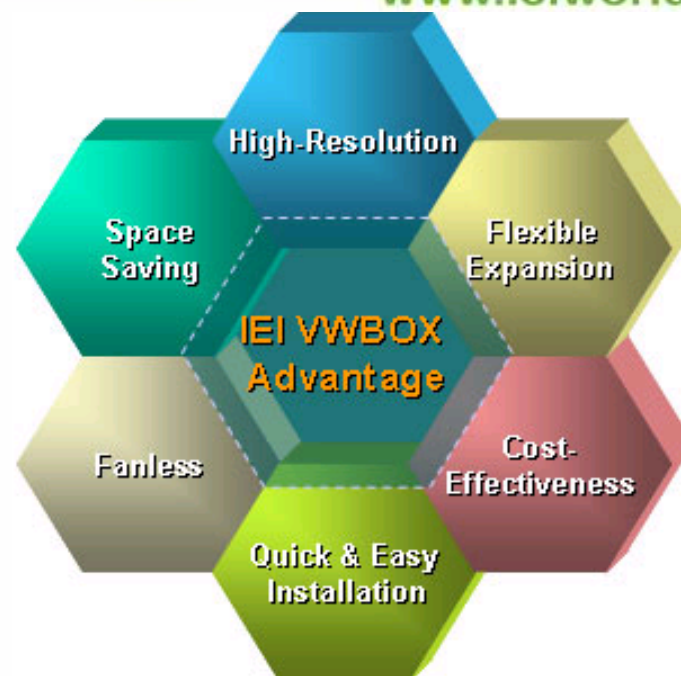


IEI VWBOX Matrix & System Architecture

Support Full HD Resolution



Support Ultra High Resolution



IBX Series Desktop POS PC



POS/KIOSK

IBX-700 fanless design avoids the dusts or smoke into the POS in the restaurant and closed working environment.

Automation

IBX-800 mobile dual core for high performance processing and low power thermal control

Gaming/Surveillance

IBX-900 offers high performance with PCIE 16x and PCIE 1x expansion slots for high performance graphic and extra devices.



AFOLUX Kiosk Panel PC



AFL-315A / 317A
KIOSK Panel PC

RISC-Based MiniKiosk
IMK Series

AFOLUX/ Enrich all-in-one POS PC

Light POS- AFOLUX POS series



- Fanless design
- Versatile mounting solution
- Selectable AT or ATX power mode
- Built-in 1.5W speaker
- Built-in 802.11 b/g wireless
- IP-64 Compliant Front Panel

Mini POS- EP-308A Mini POS series



- 8" Mini POS with Intel® Atom™ processor
- Built-in 2" easy-loading thermal printer
- Resistive touch screen panel
- Built-in 802.11 b/g wireless
- IP-64 Compliant Front Panel

POS Peripherals

Card Reader/Barcode Reader/
Cash Drawer/Customer Display
/Thermal Printer



Hinge design POS- EP-16X POS series



- Second display supported
- Full I/O interface
- Dust-proof CPU protection
- Heat-dissipated Aluminum Chassis
- Built-in 802.11 b/g wireless
- IP-64 Compliant Front Panel

Modular Construction POS- EP-26X POS series



- Second display supported
- 20-90° adjustable front panel
- Effective heat dissipation system
- I/O interface for easy peripherals connection
- 2.5" SATA HDD or CF card as storage device
- Built-in 802.11 b/g wireless
- IP-64 Compliant Front Panel



PACsmate®



www.ieiworld.com

All-in-one Medical Panel PC – POC Series



POC-3/A Series
Multi Purpose



POC-3/B Series
with UPS



POC-4/A Series
Fanless



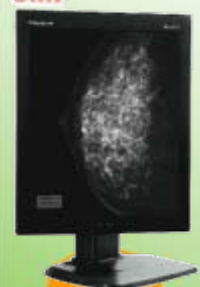
POC-4/B Series
High Performance



Medical Imaging Solutions - MMD Series

12-bit

5MP



MMD-5201M

3MP



MMD-3213M

2MP



MMD-2213M

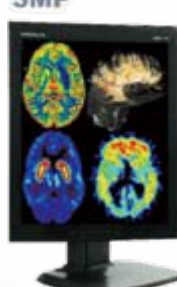
30-bit

4MP



MMD-4300C

3MP



MMD-3208C

3MP



MMD-3210C

2MP



MMC-2201C



IEI has developed Intel, SiS, VIA, and AMD solutions on twelve different form factors with seven different platforms to meet all application requirements.

Customers benefit by never losing any requests from the markets.





Core Competence - R&D Management -



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~ We provide far more than you would expect from an outsourcing partner ~



R&D Functions



R&D Resource

IEI

Mutually Shared Resources



R&D Resource

ICP

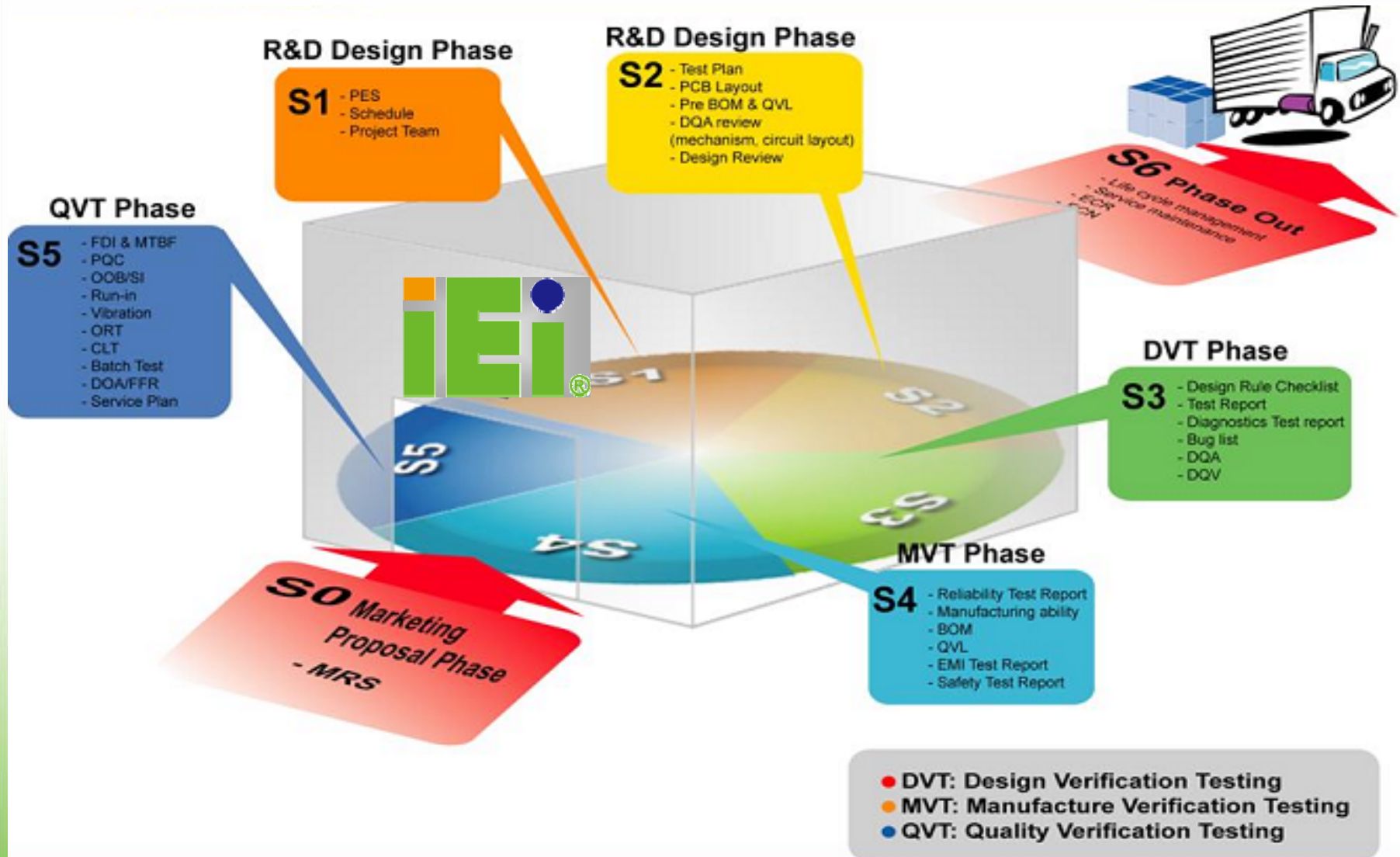
More than 300 engineers
(ICP 220 ; IEI 80)



Solution innovator, Embedded your life

- **IEI is the only IPC manufacturer owning two BIOS source codes!!**



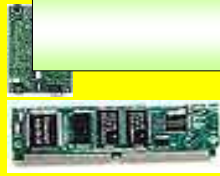




Document Management



Documentation



Parts

PNR and Material Approval

Issue/Bug Tracking

BOM

CAD
Model/Drawing

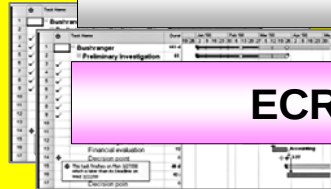
Component Sourcing

ECR/ECN

DCR/DCN



Bug/Issue



Project Data



Sourcing
Information

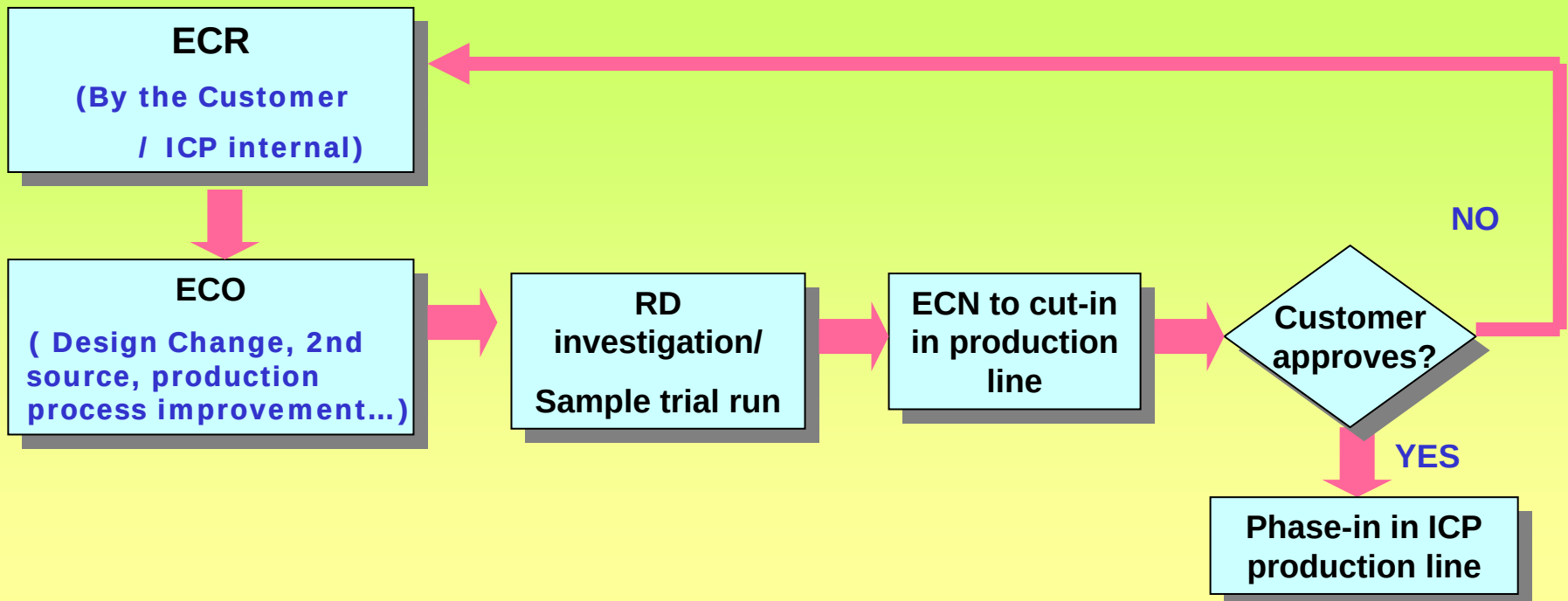
Project Management/Program Execution

1. Customer and ICP can trigger the change order request.

- The ECOs (engineering change orders: CAR, BOM modification orders...) related to the ECN.
- All ECNs should be approved by the customers before cut-in in the production line.

2. PLM authorities to the customer :

- Data search
- ECN Approval





➤ Design Qualification and Validation (DQV)

More than ten comprehensive quality assurance tests are performed on all IEI products throughout the product development cycle.

2 Units -75~120°C

6 Units -40~100°C



Burn-In Chamber



Vibration Testing



Drop Testing



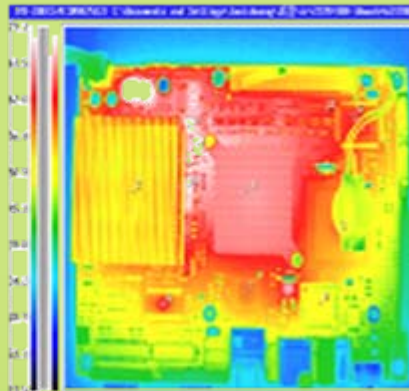
Signal Integrity Testing



IP65 Testing



Power Consumption Testing



Thermal Testing



Dust-free LCD Testing



IEI is the only company in the IPC industry that provides in-house waterproof and noise testing!



X-Ray Chamber



ESD Testing



Waterproof Testing



Thermal Analysis Lab



Acoustic Chamber



Noise Testing

- **Highly precise quality control processes provide you with reliable products**

We care about every step!!

First Test



**I/O port & VGA display (LCD)
Testing**

Second Test



1. Windows 98, 2000 and XP
2. LAN functions
3. LCD display functions
4. Audio functions



- In-house EMC/EMI chambers
- In-house ESD testing chamber
- ICP has the ability to get products certified by the followings



TUV	EN60950
CCC	GB 9254
FCC	Part 15B, Part 15C, Part 15E Class A and Class B
CE	EN55011, EN55022, EN60601-1-2, EN300328, EN301489-17
UL	UL60950, UL60601
CB	IEC60950
VCCI	Class A and Class B
C-Tick	AS/NZS 3548
BSMi	CNS13438



EMI Chamber
(3Mhz – 2GHz)



EMI / RF Chamber



Manufacturing Resources (ICP, ArmorLink SH, Xinwei)



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An Excellent Outsourcing Partner Supports you 『**TIME TO MARKET**』 !

Name	Location	Capacity (month/three shifts)	Products
Armorlink SH Corp. (2008 Nov. Online)	Shanghai	10,000+ pcs/ 150,000+ pcs	System/ Board Level
ICP Chung-Sing site	Taipei	6,000+ pcs	System Level
Xinwei Corp.	Kunshang	4,000 Pcs/ 30,000 Pcs	Chassis/ Sheet metal

Armorlink SH
42,000 M² facility
Shanghai, China



ICP Corporate
6,500 M² facility
Taipei, Taiwan



**Xinwei Co.
(KunShang)**
28,014 M² facility
Kunshan, China



Equipment Capability



ICP (Taipei)	3 SMD lines	2 DIP lines	
	1 SMD Sample line	1 DIP Sample line	4 Assembly lines
ArmorLink (Shanghai)	6 SMD lines (2 high-speed, 1 sample line incl.)	5 DIP lines (1 sample line incl.)	2 Assembly line (1 in IEI SH)
Xinwei Corp. (KunShang)	2 Laser Cutting Machines		1 Painting Line

SMD Line



Solder Printer



Pick & Place
Mounting Machine



Tangtech
Reflow Oven



AOI



Solder Printer
Inspection



CNC with 4-axis

DIP Line



Victronics Wave
Soldering Oven



DIP

Mockup Customization Service



Metal Mockup

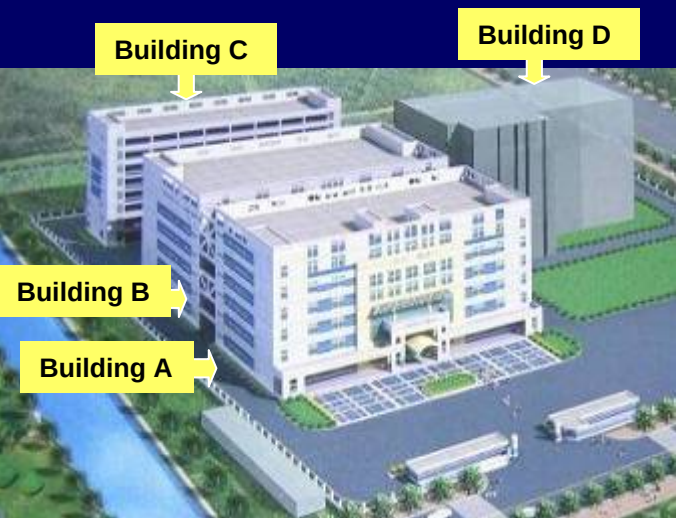


Plastic Mockup

New ArmorLink SH Manufacture Building Superficies



ARMORLink floor space is “5 times” larger after Phase II expansion (2008Q4)



Name	Building Space (m ²)	Function
Building A NEW	11,923	- R&D Center (6F, 7F) - Offices
Building B NEW	12,718	- Board Level Assembly (5F~7F) - Reserved “Focus Factory” Floor (2F, 3F)
Building C NEW	7,923	- Staff Dormitory (3F~8F) - Staff Restaurant (1F, 2F)
Building D	9,795	- System Level Assembly (2F~4F) - Warehouse (1F)



1. Established: Oct. 2000
2. Total 45,000 m²
3. Services:
 - ◆ Sheet metal shell manufacturing
 - ◆ Sheet metal component processing
 - ◆ Metal sheet punch, laser cutting, folding and welding
 - ◆ Liquid painting

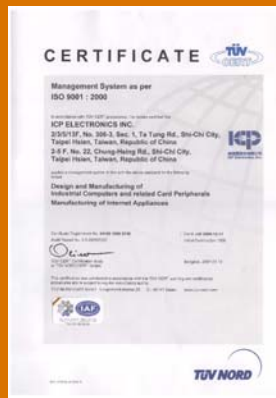


Available Quality Certificates

ieiworld.com



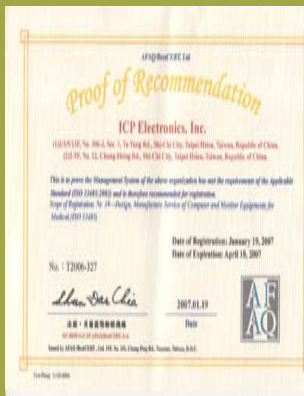
ETC GPMS



9001:2000



14001:2004



13485:2003



QC080000

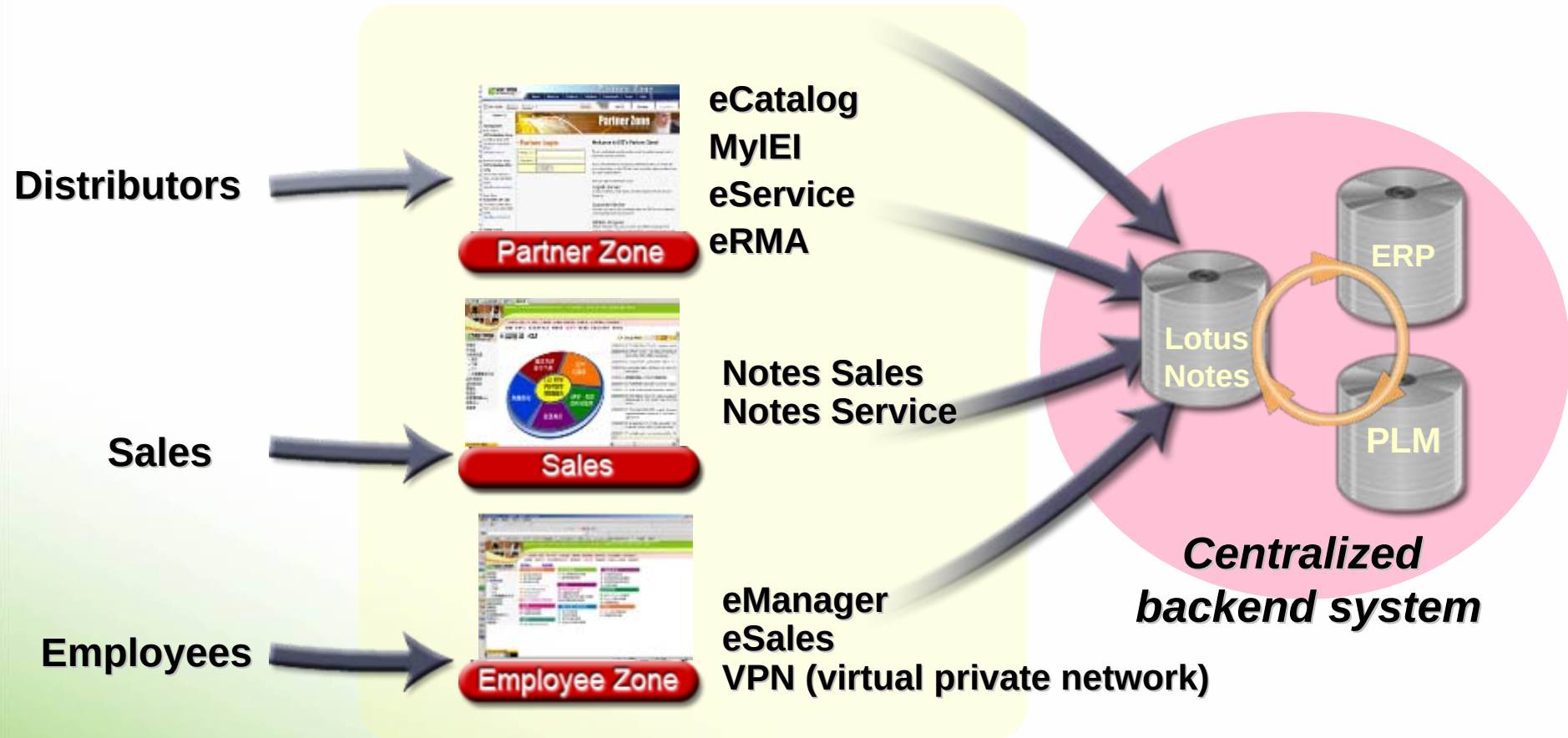


Worldwide Service



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IEI Website

Partner Zone

- Personalize account management
- Logistic service: Inventory, order status, peripherals price, eRMA
- Product promotion information
- Product Information: Product datasheets, photo, sales kits, dimension, EOL/PCN/TN/PF notice, product RMA policy
- Technical support: FAQ, test report, embedded OS BSP, document download, online feedback....
- Marketing materials list & download



My IEI

A friendly user interface to help anyone who is interested in IEI products to create their own homepage with related product news and messages.



Download Zone

Products' driver, BIOS, user's manual, datasheet, QIG, utilities, RoHS document download



Affiliate Plan

Qualified affiliates could have a real-time product promotion banner link automatically update on their website.

eRMA

To provide RMA service on web



eNews

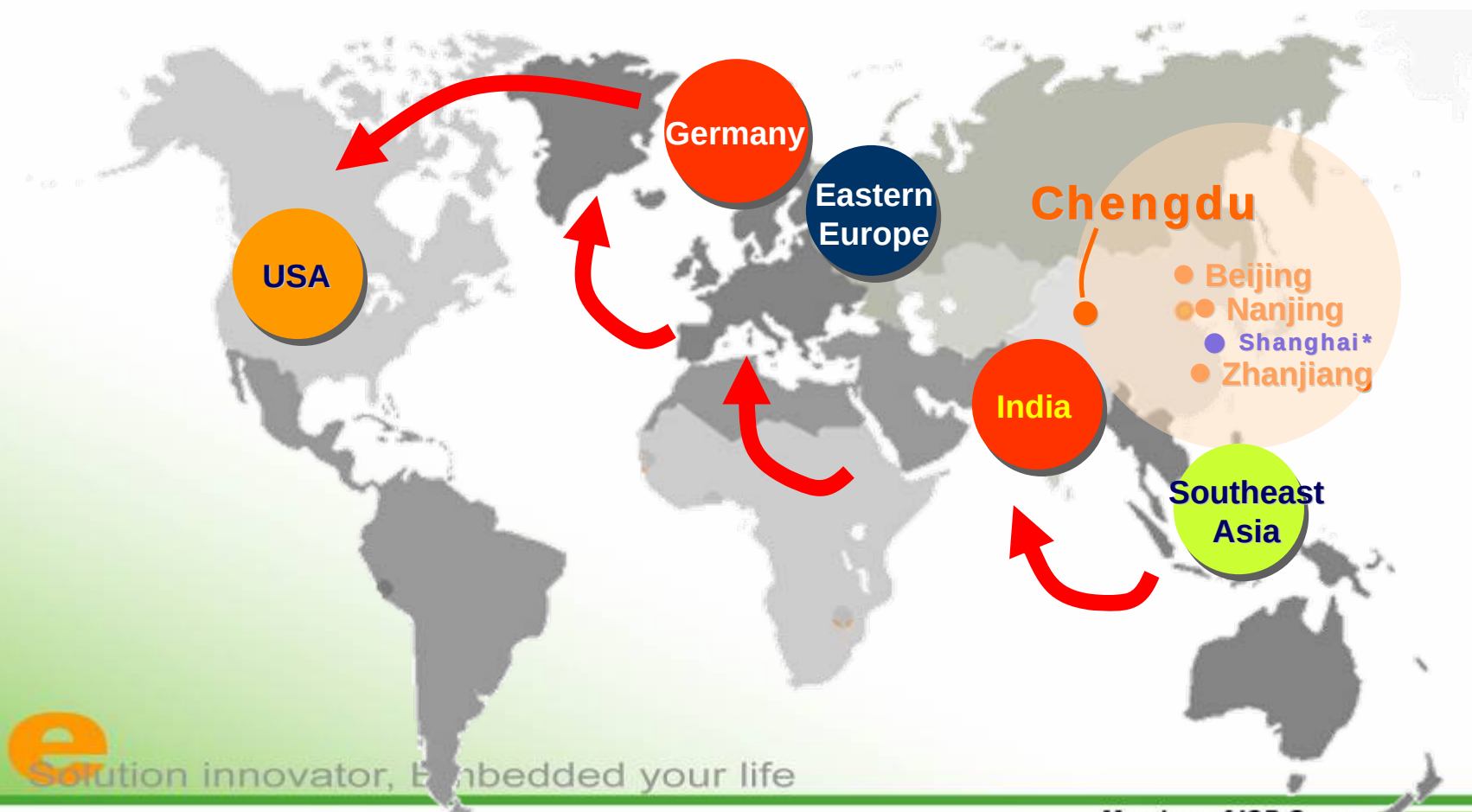
Product promotions

New product launch notices

Product EOL/PCN/TN/PF notices

Latest company news

Fast in ♦ *Right Product Design!!*
♦ *Service Response!!*

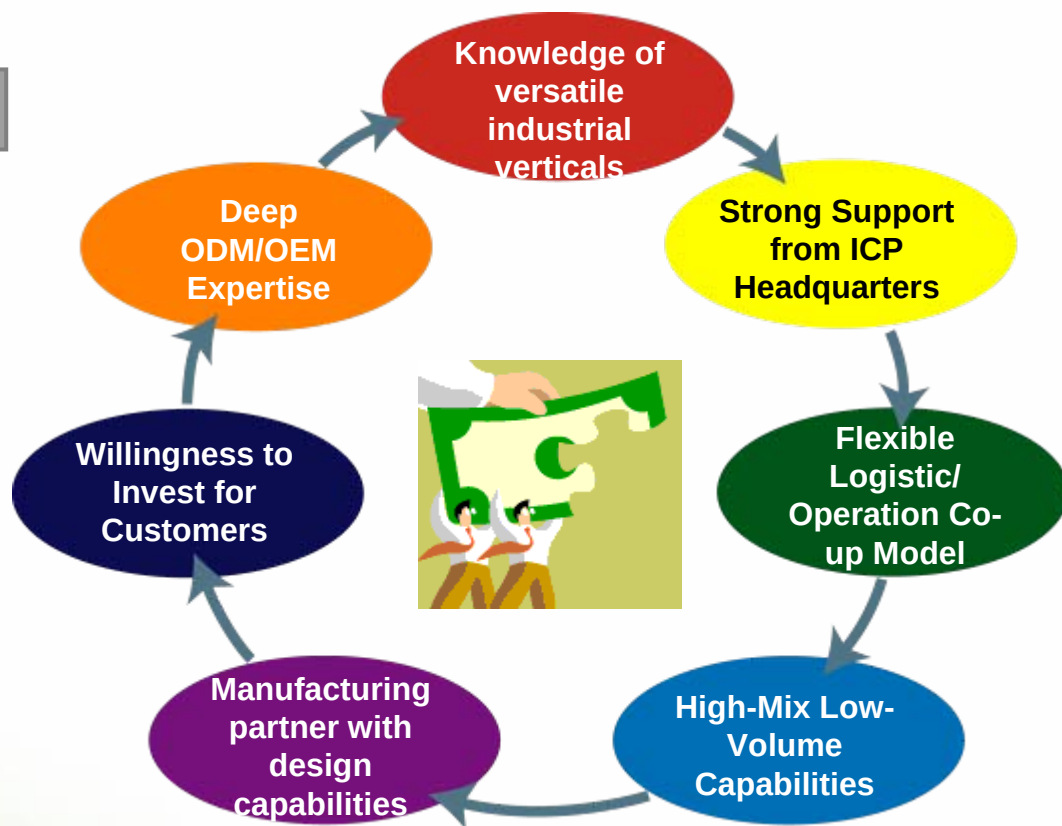


Lower TCO (Total Cost of Ownership) !!! Fulfilling Customers' **Solution Integration** Demands

One-stop Shopping Center



Benefit





Q&A



Solution innovator, Embedded your life

Company Profile

Member of ICP Group





Thank you!



Solution innovator, Embedded your life

Company Profile

Member of ICP Group

