

Compal AEP Introduction



Company Highlights

- Founded: 1984 / Headquarters: Taipei, Taiwan ROC
- Exchange: Taiwan Stock Exchange, Luxembourg (GDR)
- Ticker Symbol: 2324 TT
- Market Cap⁽¹⁾: US\$ 3.0 bn
- From 2001, recognized as Info Tech 100 by Business Weekly for 11 straight years
- In 2011, sales revenue was ranked as No. 4 among Taiwanese corporations
- 2012, consolidated revenue reached US\$ 23.5 billion dollars



Wireless Communications: 15 Yrs (Since 1998) Cellular Phone (GSM/GPRS/CDMA/3G) Smartphones PDA

Consumer Electronics: 13 Yrs (Since 2000)

- □ LCD TV
- Mobile Internet Device (MID)
- □ Digital Media Player
- □ Tablet PC
- **□** Automotive Electronics







Note: At closing price on Jan. 10, 2013



Compal Group Integrated Resources





- NB / Netbook/ Ultrabook / AIO
 - LCD TVs / Monitor
- Tablet / eBook/ Digital Media Player
 - Automotive Electronics
 - Smart Phone
 - **GPRS/UMTS/CDMA/LTE**

Semi-conductors & Components



Compal Precision 巨寶

金屬及塑膠機殼

magnesium aluminium alloy & Plastic Machine hull

冠寶 Crownpo Technology Inc 晶片二極體Chip Diode

時緯科技股份有限公司 SWENCSWENC Technology Co. Ltd.

觸控面板 (薄膜式) Touch Panel

Raynnant 瑞宏 機殼表面處理imprint

樂寶

無框面板Frameless panel

Henghao Technology Co.,Ltd

恆灝科技

玻璃投射式電容觸控面板、觸控感測器

arcadyan 智易

無線網路通訊 Wireless communication



印刷電路板 Printed circuit board

連鋐LH

軸承Hinge

升寶

Compal Connector Manufacturing 連接器Connector

極創電子uPI 電源管理IC

Power Management IC



Organization in 2013

President and CEO Ray Chen

Executive VP
David Shen
Martin Wong
William Chang
CC Hsu

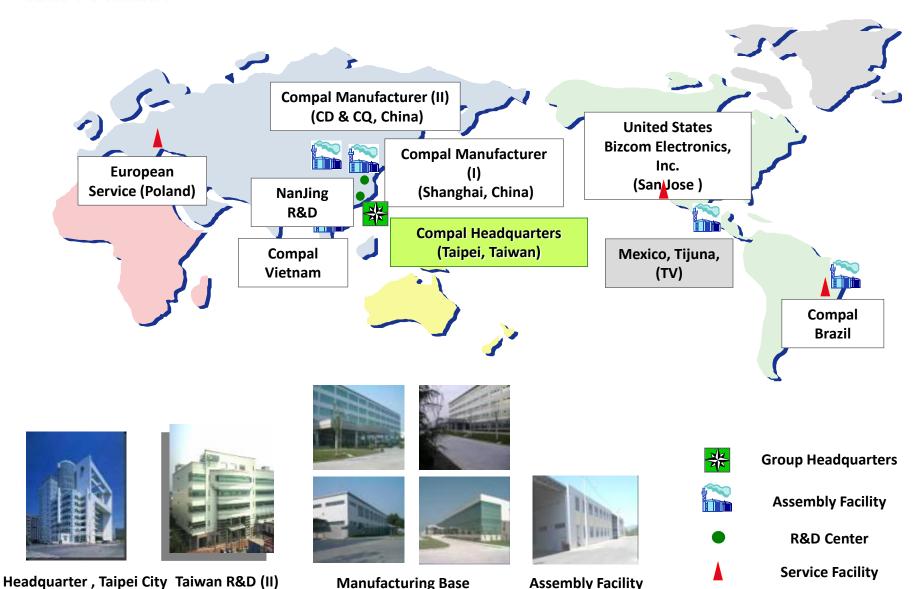


Business Group 1 RD Unit Global Operation Design Quality Procurement Business Group 2 Assurance Group Group Samson Sern BG **Martin Wong** David Shen **Jeremy Liang Peter Chen** Tony B. **Richard Chang Ying Chang** William Chang **Richard Chang BU 1 BU 3** Accounting China HR & SW Group ADM. Group **Gary Lu BU 2** Innovation BU 5 **Operation BU 1** HR and ADM. **BU 6 Display BU Platform** Group **Operation BU 2 Jackson Ting AEP Experience CEB Operation** Design **Finance** Group **Division** Jessica Lin Common **Service Group Engineering IT Group Engineering** Service **Area Service**

Group



Global Operations



(São Paulo, Brazil)

(Greater Shanghai, China)

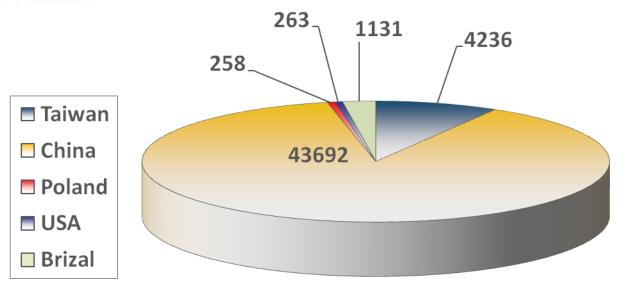


Capacity in Each Factory

Country	City	Operation Start	Monthly Capacity
	KunShan Plant 1 Sep 2000 KunShan Plant 2 May 2003	1.2M	
		1.3M	
	KunShan Plant 3	Dec 2005	1.6M
China	KunShan Plant 4	May 2008	1.4M
	KunShan Plant 5	Jun 2011	1.4M
	BaCheng Plant (TV)	Jun 2012	2M
	Chong Qing (CQ)	Jun 2011	1M
	ChenDu (CD)	Sep 2011	1M
Vietnam	Hanoi	May 2011	0.5M
Brazil	Sao Paulo	Mar 2009	0.2M
Mexico	Juarez (TV)	Sep 2011	0.2M



Global Resources







Facilities	Category	Employee	Location
Taipei	Headquarter (incl. R&D 3,500)	3,837	Taiwan
PCP	RD team	265	Taiwan
LKE	RD team	243	Taiwan
CEC	LCD Monitor/TV	2,726	China
KS Factory 1 2 3 4 5	NB factory/Consumer products	31,063	China
CQ	NB factory/Consumer products	4,876	China
CD	NB factory/Consumer products	3,762	China
CEB	NB factory	1,131	Brazil
Bizcom	Service & Config Center	263	USA
CEP	Service Center	258	Poland
TOTAL		48,424	

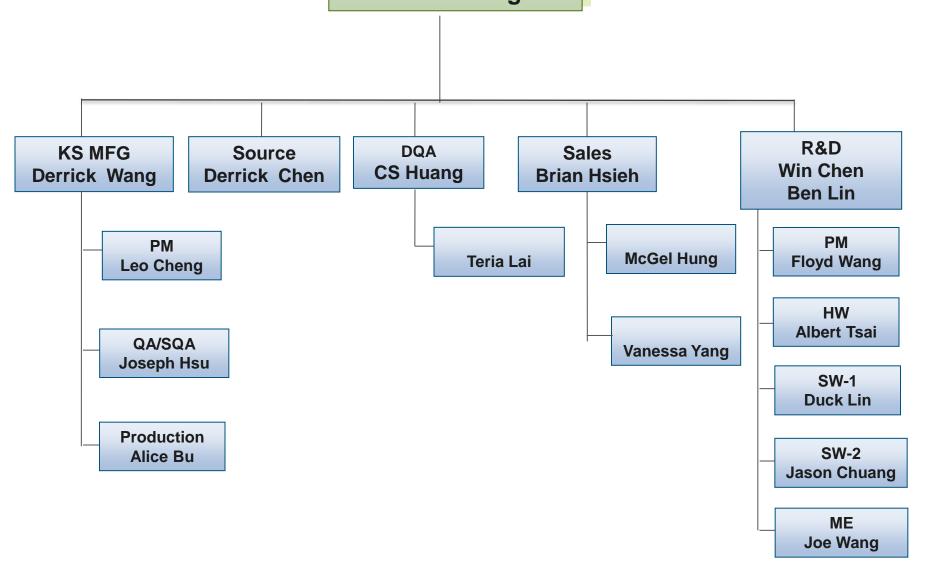


AEP Product Development & Manufacturing



AEP Organization

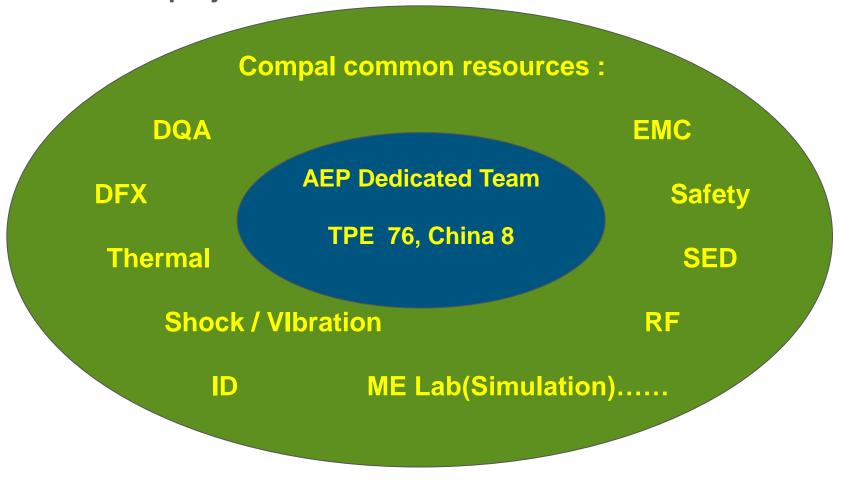






Completed AEP Design Resources

 Dedicated team: 84 (not including common pool) capable for ODM/EMS project.





AEP ODM Launch Project-I

■ ODM Project I to Yulon-Nissan Motor TOBE System - 2010/10 SOP



The 3rd generation of TOBE system is a standard equipment of 2011 TEANA model of Yulon-Nissan motor, Taiwan.

- The WinCE-based TOBE application system developed by Compal AEP SW team with the following main functions:
- Phone
- TOBE menu
- Audio
- Setting adjustment
- Trip information

- Navigation
- CCD
- Air Bag alarm
- Pop-up menu
- Security alarm



AEP ODM Launch Project-II

■ ODM Project II for Yulon-Nissan Motor Telematics & infotainment device - 2012/10 SOP





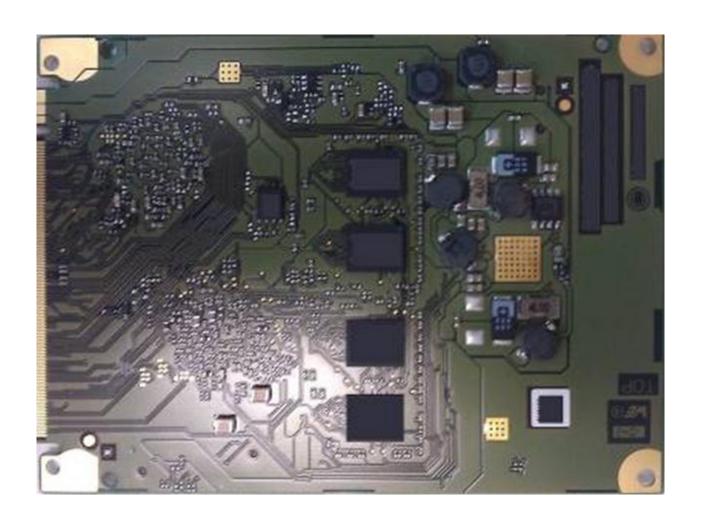
The 2013 Big Tiida model of Yulon-Nissan motor, Taiwan.

- NAVI
- Multimedia (Video/Audio/Radio)
- 3.5G/GSM
- iPhone/iPod Touch/iPod Nano connection
- SOS function and Call center service
- ECO



AEP OEM Launch Project-III

■ OEM/ODM Project with Major Head Unit Account SOP: 2012/3 for European Cars





Historical Experience



1. The main functions of KAX50 project (2-DIN)

- · Built-In DVD ROM, USB and SD card slot
- 40GB HDD, 1GB DDR2
- AM/FM/HD Tuner, Satellite Radio XM/Sirius ready, Support RDS/RDBS
- Built-in Bluetooth & GPS (DR TMC) Module
- · Rear Camera Compatible
- iPod Connectivity (audio)



2. The main functions of KAX00 project (1-DIN)

- Segment or Dot Matrix(128 x32 Dots) Display
- Built-In CD ROM and USB
- AM/FM Tuner, Support RDS/RDBS
- Built-in Bluetooth Module
- Support AUX in
- · CAN Bus interface (Option)



3. The main functions of JAX30 project (2-DIN)

- Touch enabled TFT display
- Audio & Video (DVD) media access
- AM/FM Radio
- Hands free phone via Bluetooth
- Navigation/GPS
- SD card, USB



Production Quality Management System

Machine

Mindset

Man

- 1. No quick & dirty.
- 2. No pad add.

Environment

Environment

- 1. Auto alarm for Temp/Humidity /ESD 22~28° &40~60%
- 2. Moisture generator

Methodology

- APQP/PPAP/MSA/SPC/ FMEA (Workbook)
- FIFO/MSD / Solder pastor
- 3. SFIS for Complete traceability & NG Lock
- 4. <u>Visible MI/ OK NG</u> awareness

Machine

- Automatic for handling free (Auto labeling/ Scanning/ moving/ buffer)
- 2. Tooling Poka- Yoke
- 3. Equipment FMEA Approaches

DPPM

Methodology Material

Material

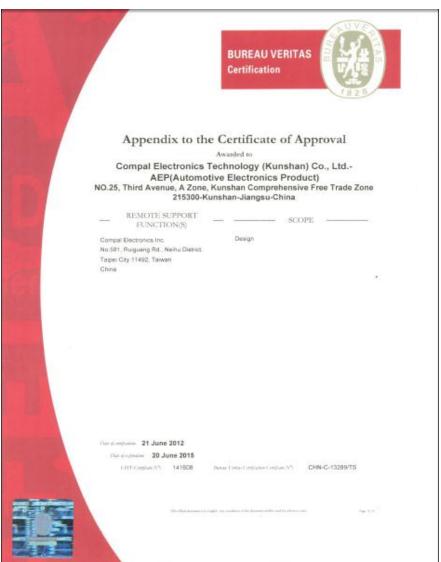
- Preventive Handling: All reel Stand up,
- 2. System control: MSD, FIFO
- 3. SVLRR<20 DPPM



TS-16949 Certificate

 Certificated TS 16949 Compliance from Y2009 – Both Manufacturing and Design Sites

	BUREAU VERITAS Certification
	Certificate of Approval
	Awarded to Compal Electronics Technology (Kunshan) Co., Ltd AEP(Automotive Electronics Product) NO.25, Third Avenue, A Zone, Kunshan Comprehensive Free Trade Zone 215300-Kunshan-Jiangsu-China
7	Bureau Veritas Certification certify that the Quality Management System of the above organisation
	ISO/TS 16949:2009 - Third edition
	and the applicable customer specific requirements
	SCOPE
ı	Design, development and manufacturing
A	PERMITTED EXCLUSION(S) None
	PRODUCT(S) DELIVERED -
	Printed Circuit Board Assembly, Assembly of Infotainment System and GPS for Automotive Electronics
	Day of implication 21 June 2012
- 4	Het graphone: 20 June 2015
	ERT Continue N 141606 Annu Universitation N CHN-C-13289/TS





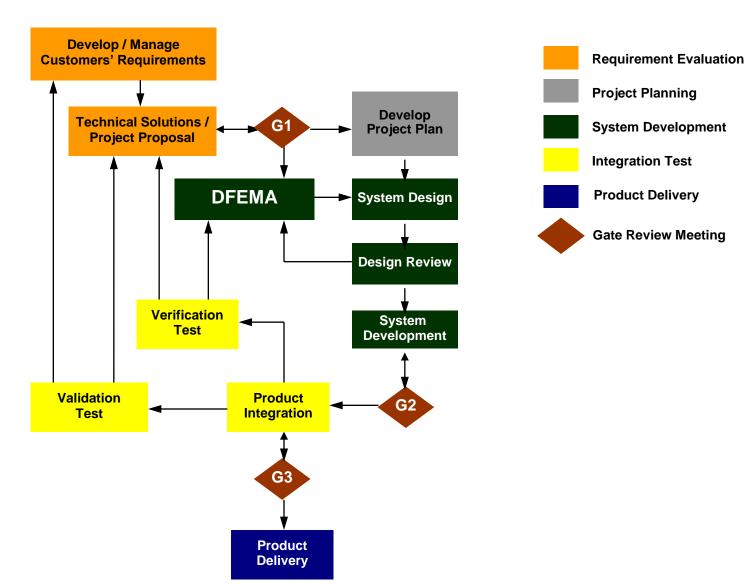
CMMI Level-3 Certificate

- 6+ years on developing system applications for vehicle devices.
- CMMI-ML3 Appraisal





New Product Development Process



COMPAL

Future Cooperation Chance

- Through the proved design, qualification & MP capability, Compal is glad to seek for cooperation chance:
 - ODM project
 - EMS/JDM opportunity



Thank You