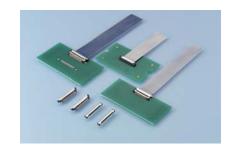




#### KEL APPLICATION NOTE







**KEL CORPORATION** 





#### **CONTENTS**

- Monitor Entertainment
- Image Processing
- DLP Projector
- NotePC Entertainment
- Car Navigation Entertainment
- **Communications**
- Wimax ODU/IDU
- Test Equipments
- Motion Controls
- Multifunction Peripherals
- Gaming Machine
- Medical Machine

















### KEL Products Applications for

#### **Monitor Entertainment**

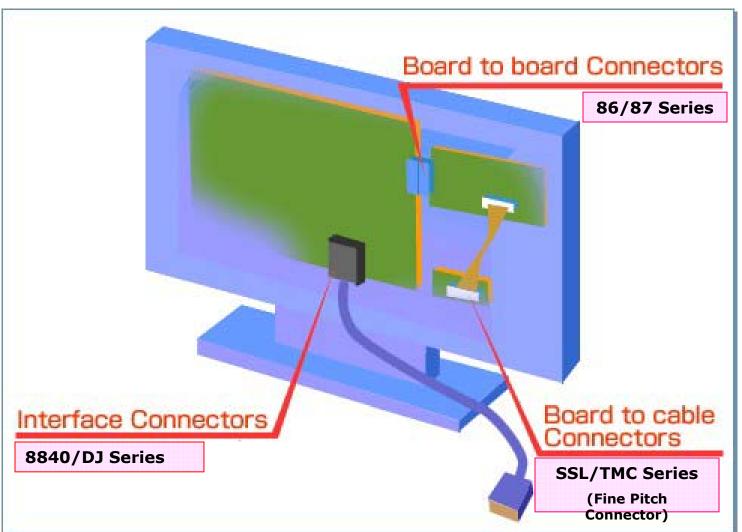




#### LCD TV/Monitor



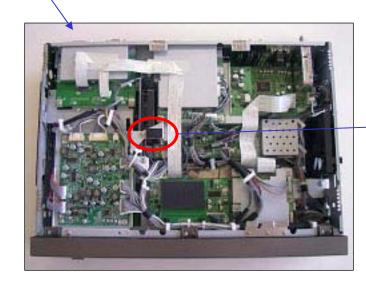




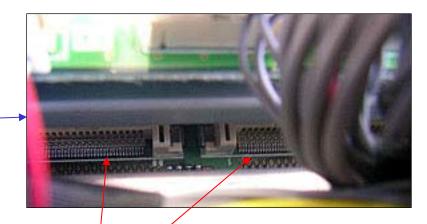


#### LCD TV









87 series BTB







### KEL Products Applications for

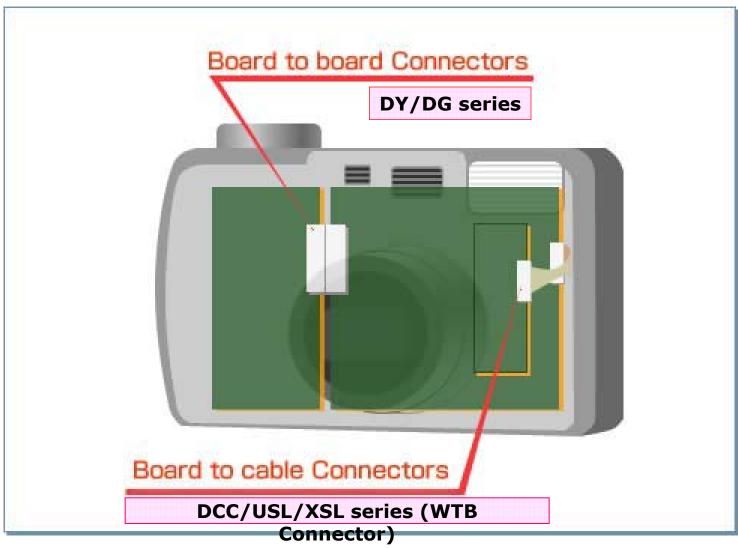
Image Processing



#### Digital Still Camera



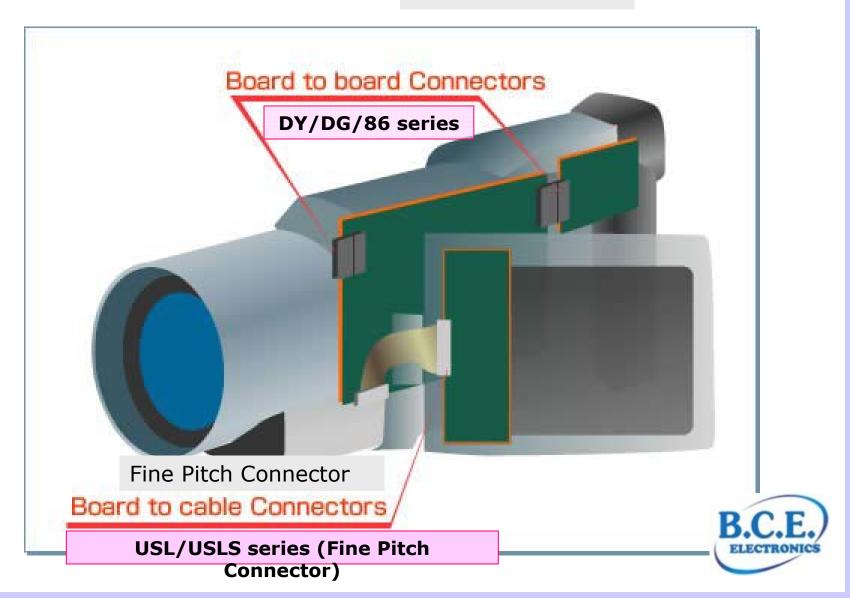






#### Digital Video Camera

**BTB** Connector

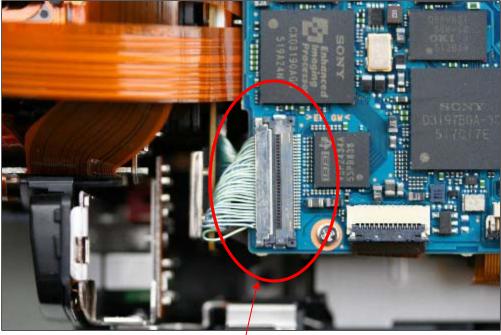




#### Hi-vision DVC







**USL** series



#### KEL B.C.E.) Professional DVD **Handy model Shoulder model Editor model** USL-40P USL-40P **LCD** LCD USL-40P LCD **HDSDI** Out put Interface HDSDI Out put USL-40P Main 2 sets/system **Board** Main Main Board Board USL-40P DY-60P DY-140P HDSDI 1.5Gbps SSL-30P SSL-30P SSL-30P 2sets/system 2sets/system 2sets/system USL-40P SXS memory card slot\*2 SXS memory card slot\*2 SXS memory card slot\*2

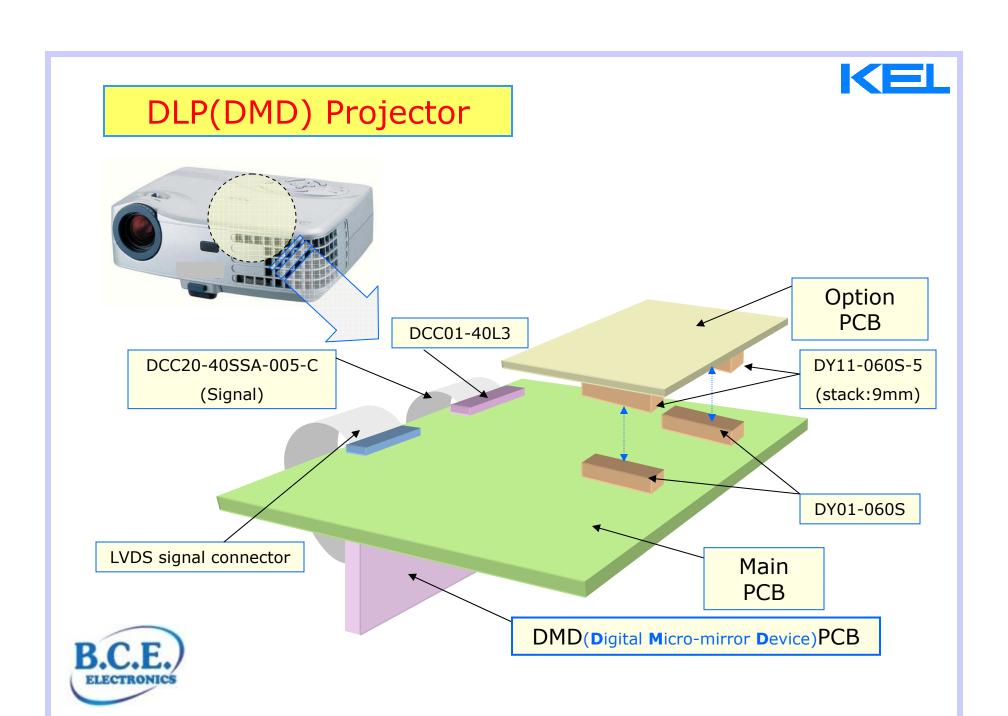


### KEL Products Applications for

DLP Projector (digital light processing)







#### **DLP Projector**



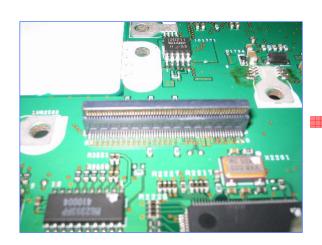




New design: 8601-140L, 8611-140S-P

Old Board (120P)

New Board 86 series (140P)







Main PCB

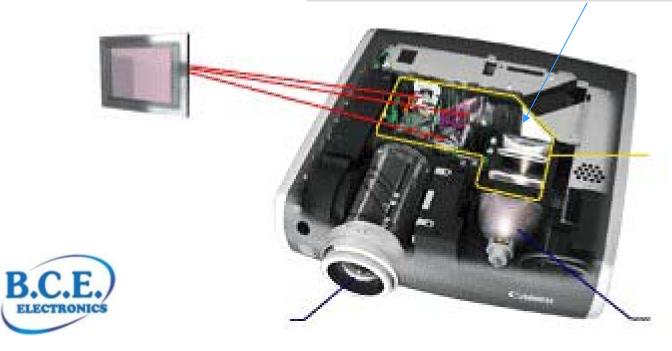
**DLP PCB** 



#### **DLP Projector**

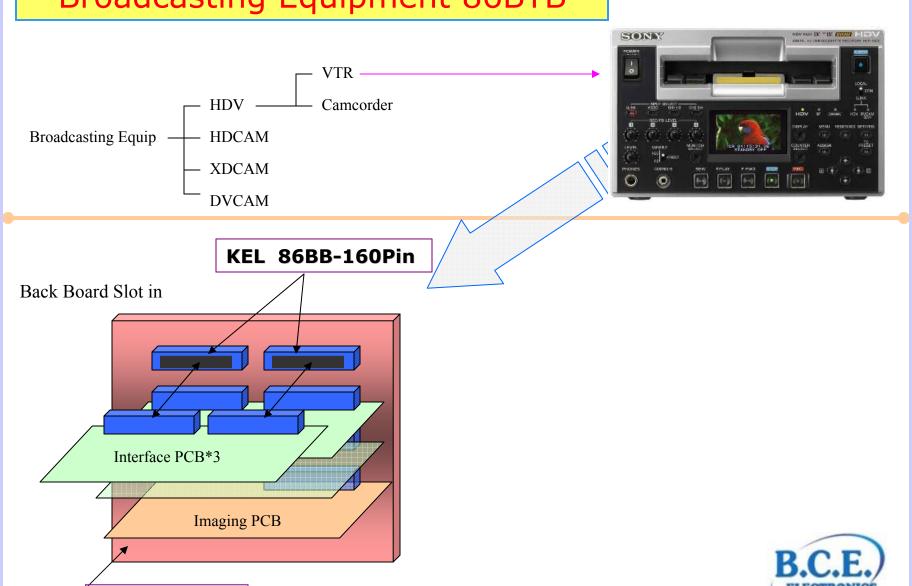


KEL Product: 8601-120L, 8611-120S



#### Broadcasting Equipment 86BTB

Main Board







## KEL Products Applications for NotePC Entertainment



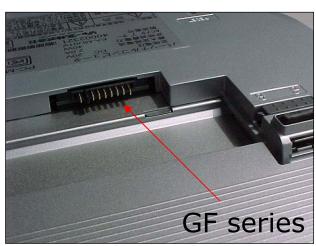
#### KEL B.C.E.) Notebook PC Board to cable Connectors SSL/USL/USLS series (Fine Pitch Connector) Board to board Connectors Card DG series Connectors **ISC** series Battery connectors **GD/GF series**

#### Mobile PC Battery Connector

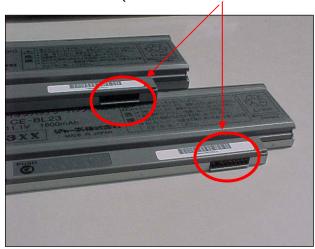








(2 PIECE BATTERY CONNECTOR)







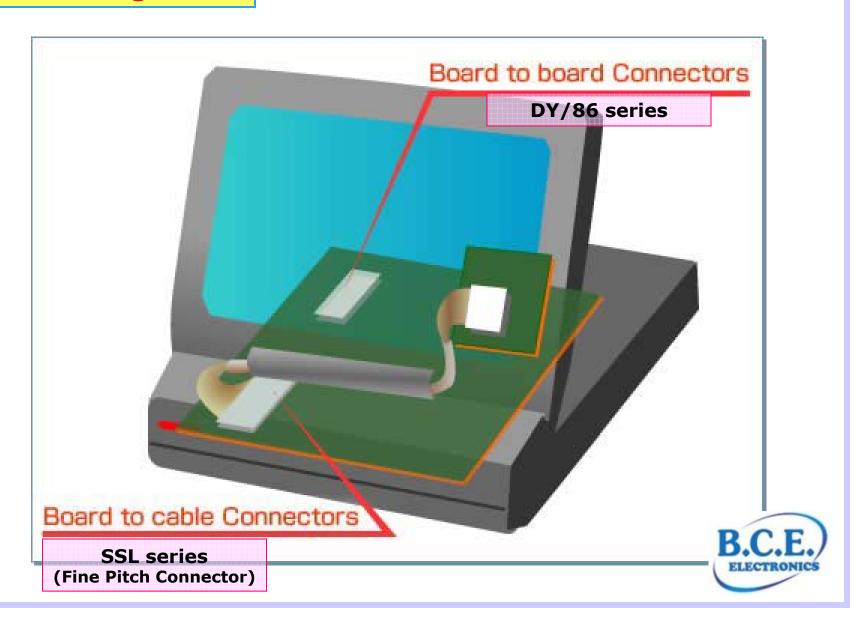
### KEL Products Applications for

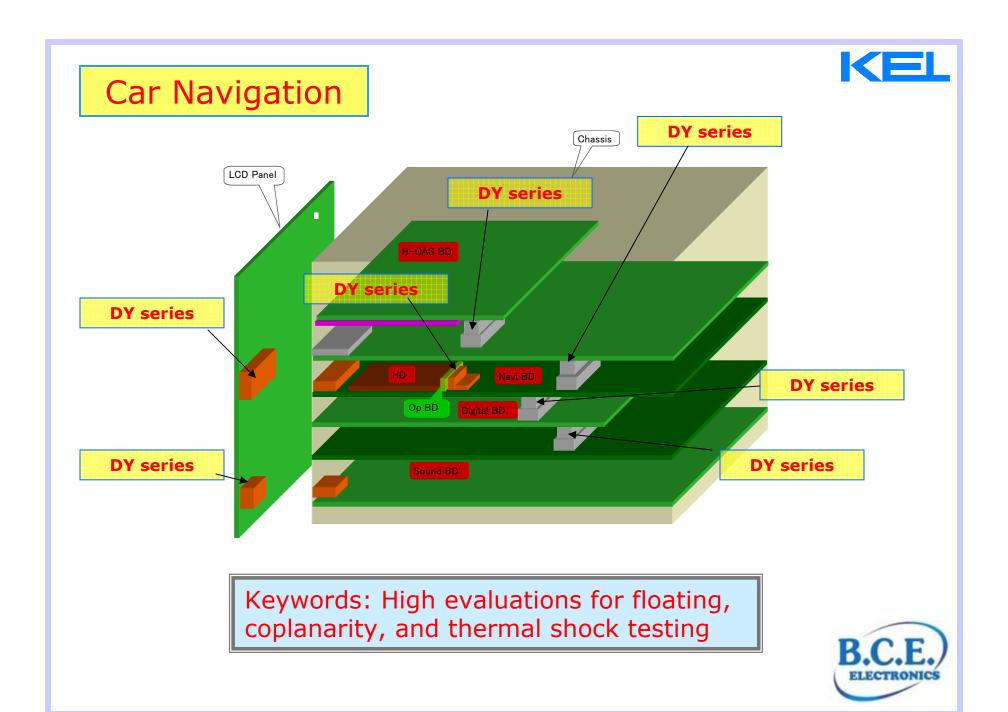
Car Navigation Entertainment

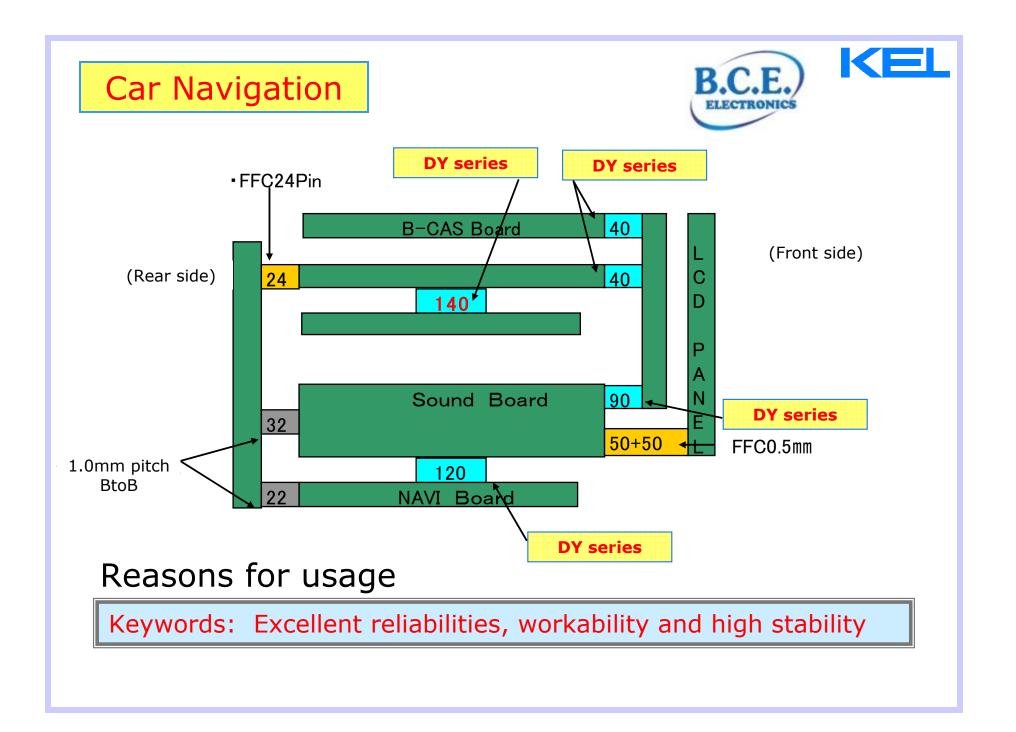




#### **Car Navigation**



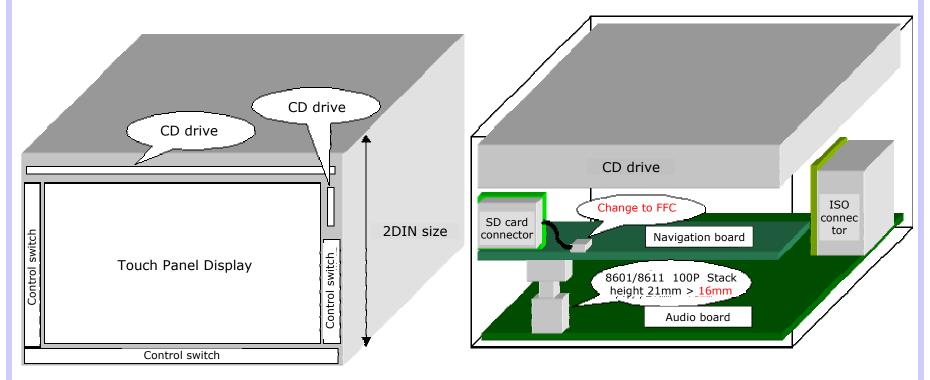




#### Car Navigation





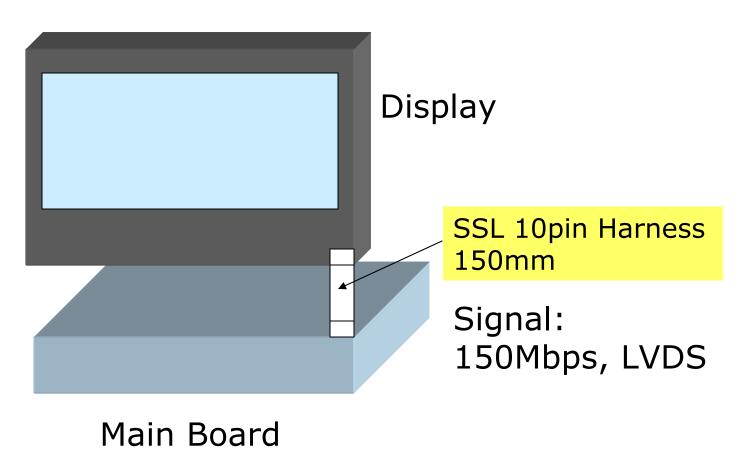


Side view Front view

Keywords: High density design on board needs 0.635mm pitch connector instead of 0.8mm pitch one



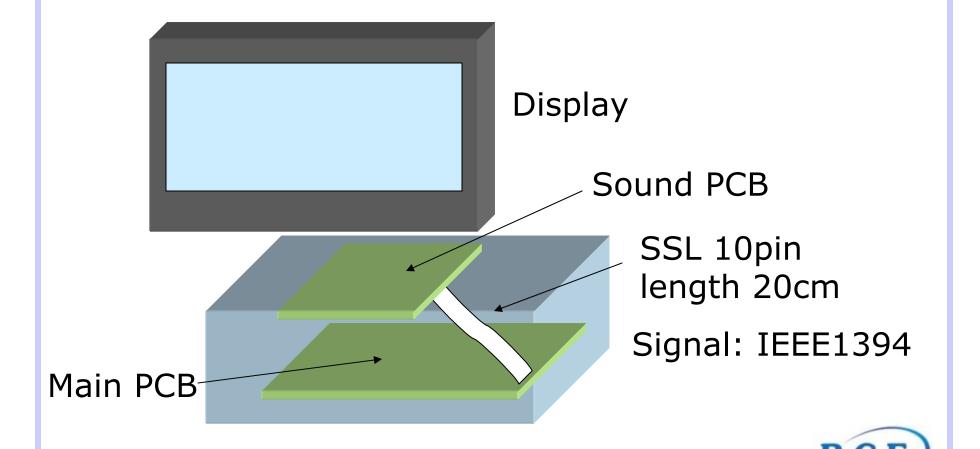
#### **Car Navigation**

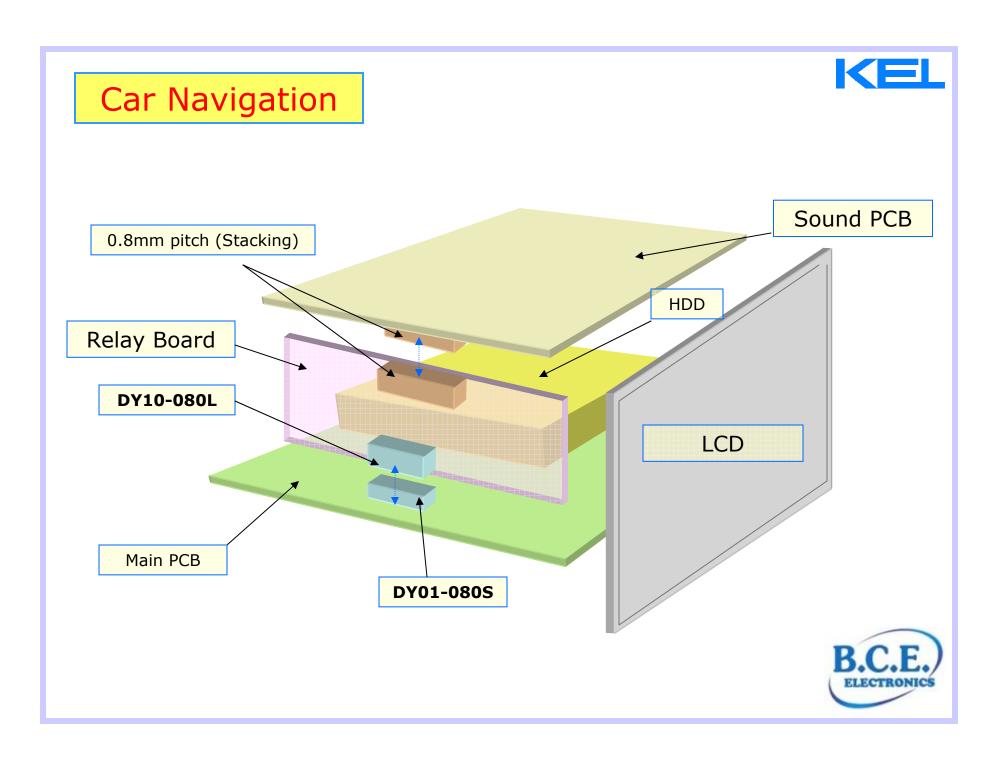






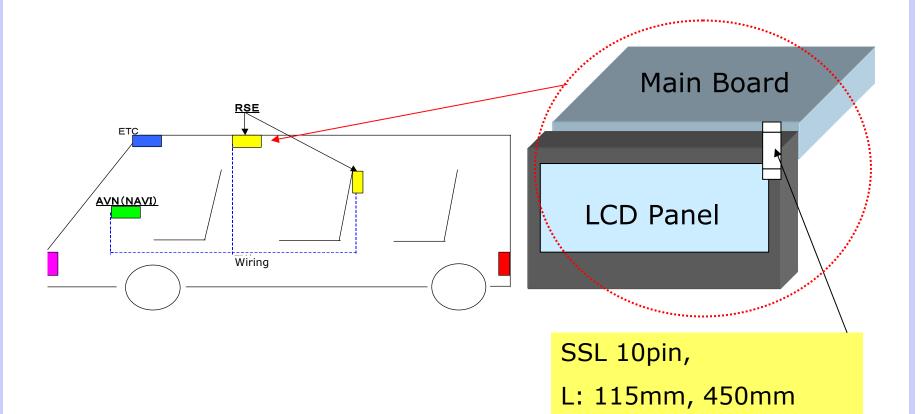








#### Car Entertainment LCD



Signal: LVDS





ETC









ISC series Landing type





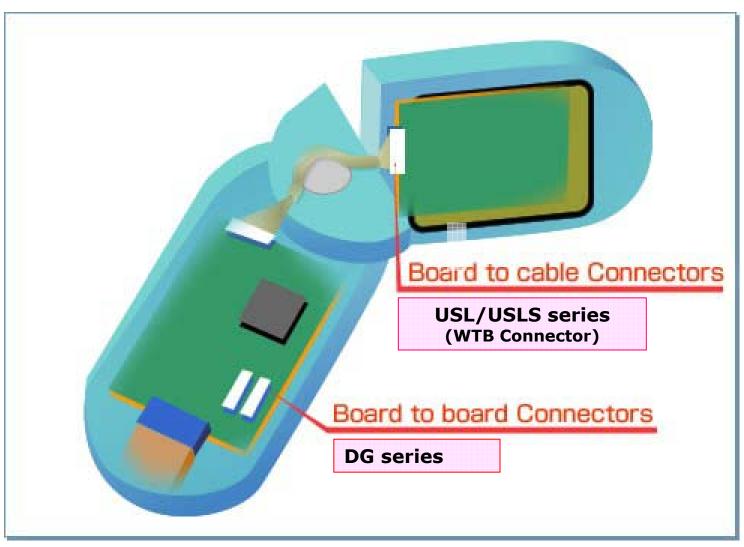
### KEL Products Applications for

#### **Communications**



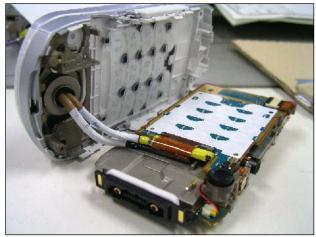




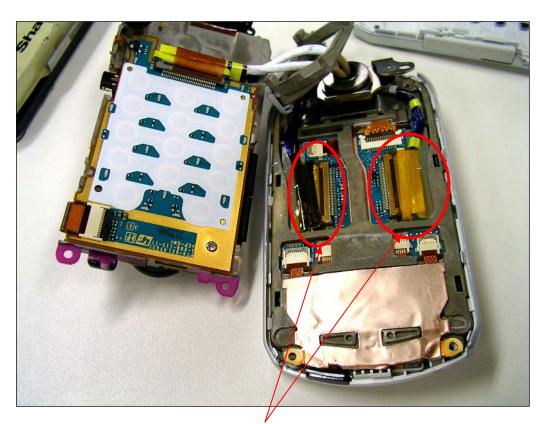








Hinge assembly



SSL series

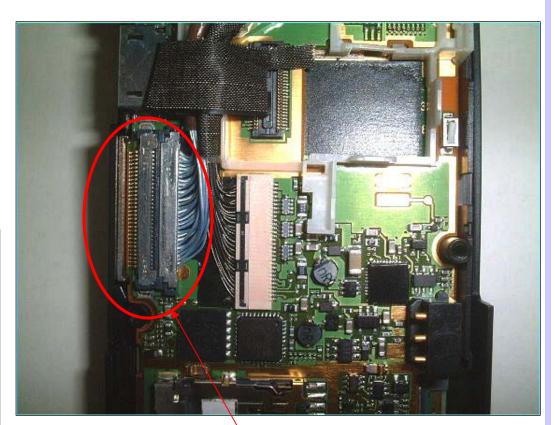








LCD panel



SSL series

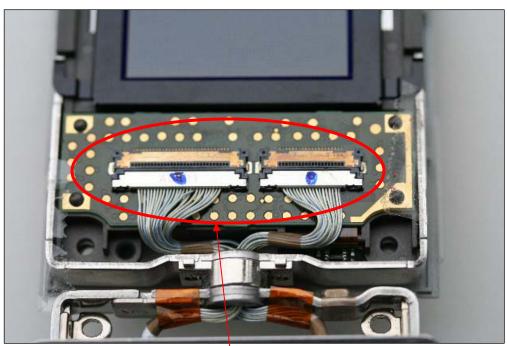












USL series











USL series







# KEL Products Applications for Wimax ODU/IDU

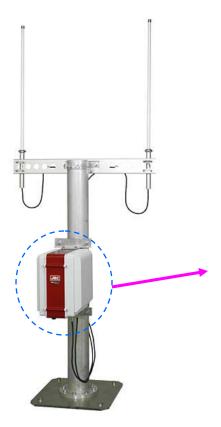


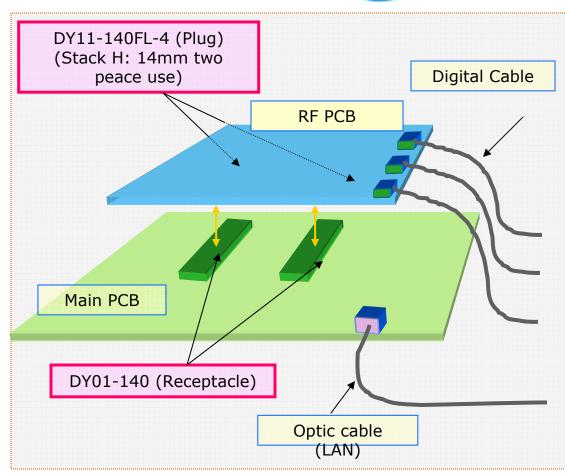
#### WiMAX ODU





**ODU (Out door unit)** 



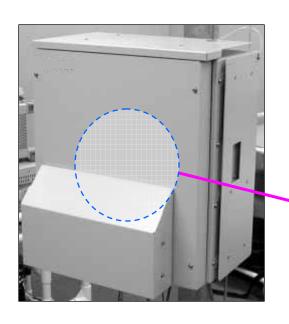


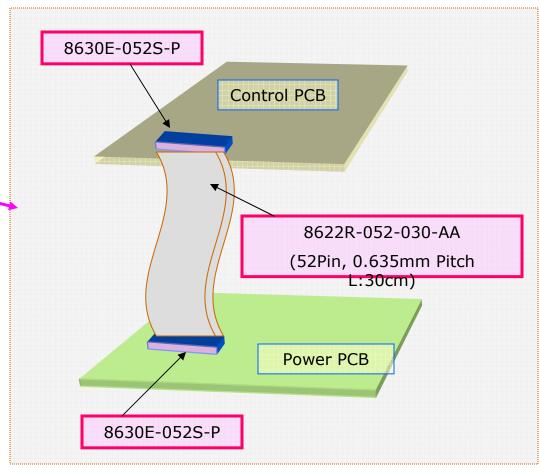
Key words: Two peace floating connector on board, Multi contacts, Stack height variation



### WiMAX ODU

**ODU** (out door unit)



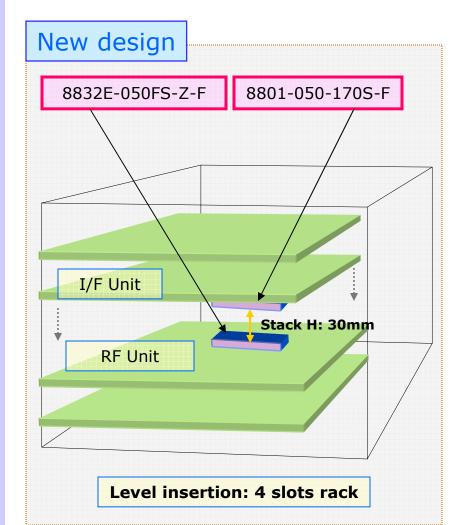


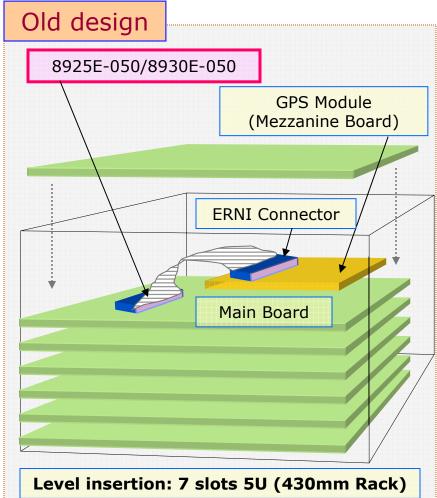


Key words: High density design on board

#### WiMAX ODU







**Key words: Stack Height 30mm** 

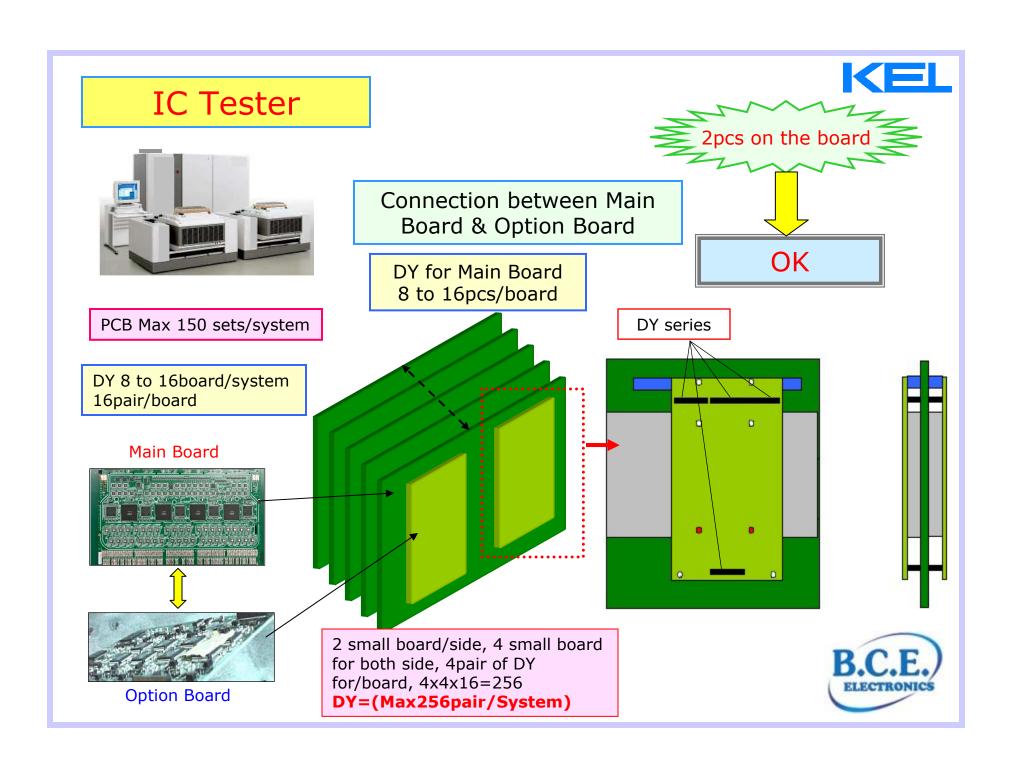




### KEL Products Applications for

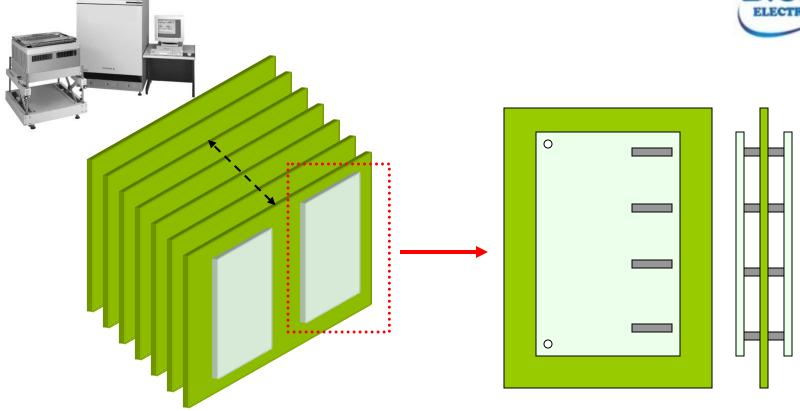
### **Test Equipments**





### **SOC Tester**

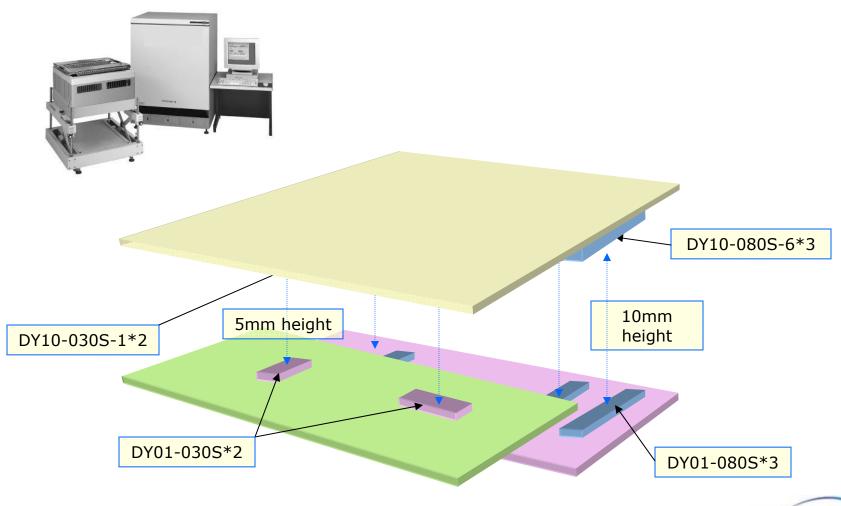




Transmission Speed: 1200Mbps Signal: LVDS (140pcs\*4) \* 4 boards=1 Mother Board uses 2,240 pcs



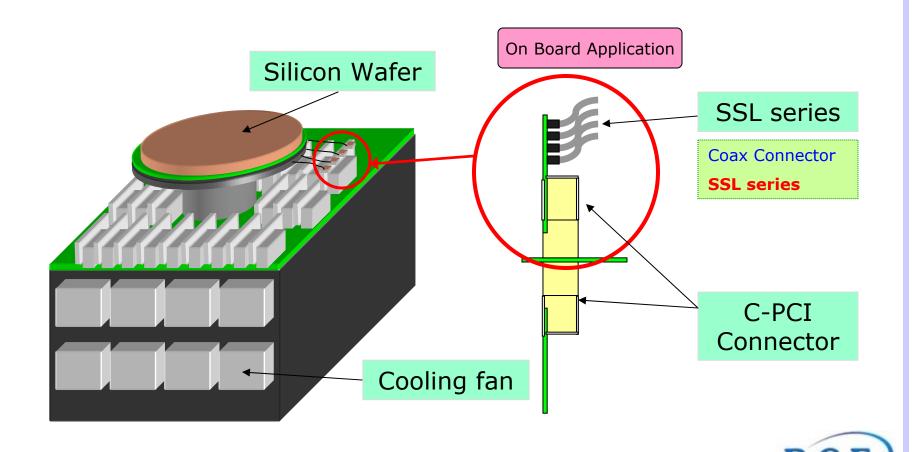
### **SOC Tester Power Module**







### **Semiconductor Tester**







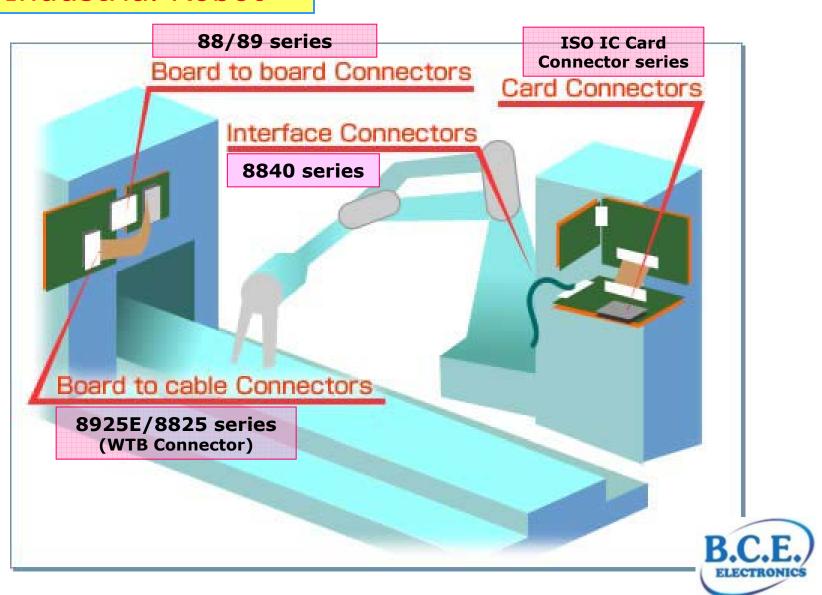
## KEL Products Applications for

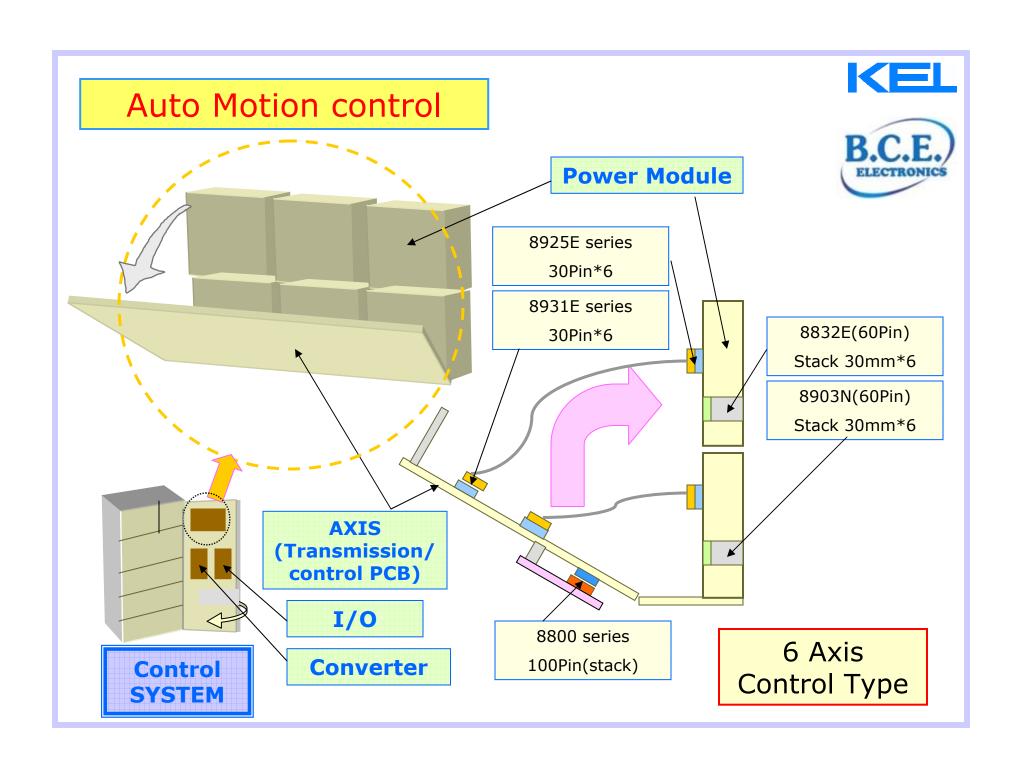
### **Motion Controls**





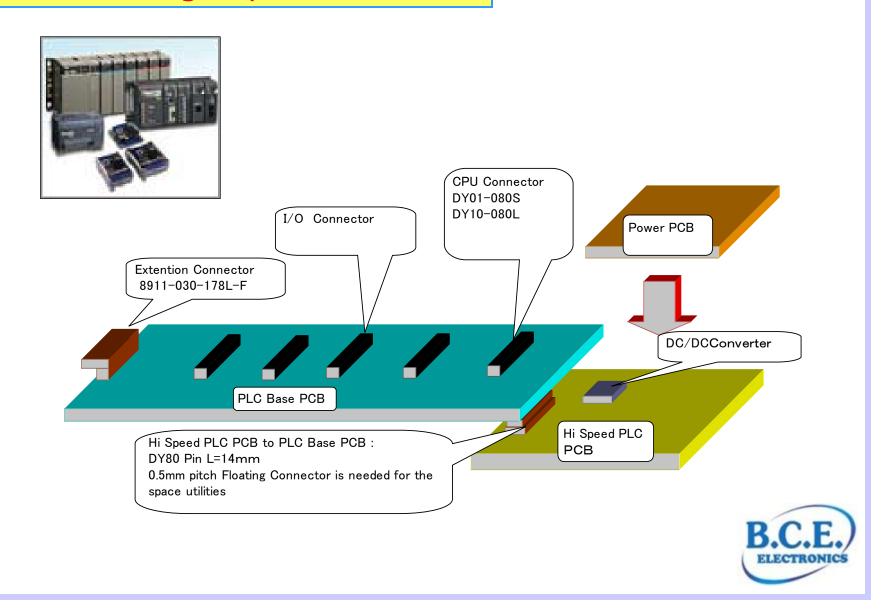
### **Industrial Robot**

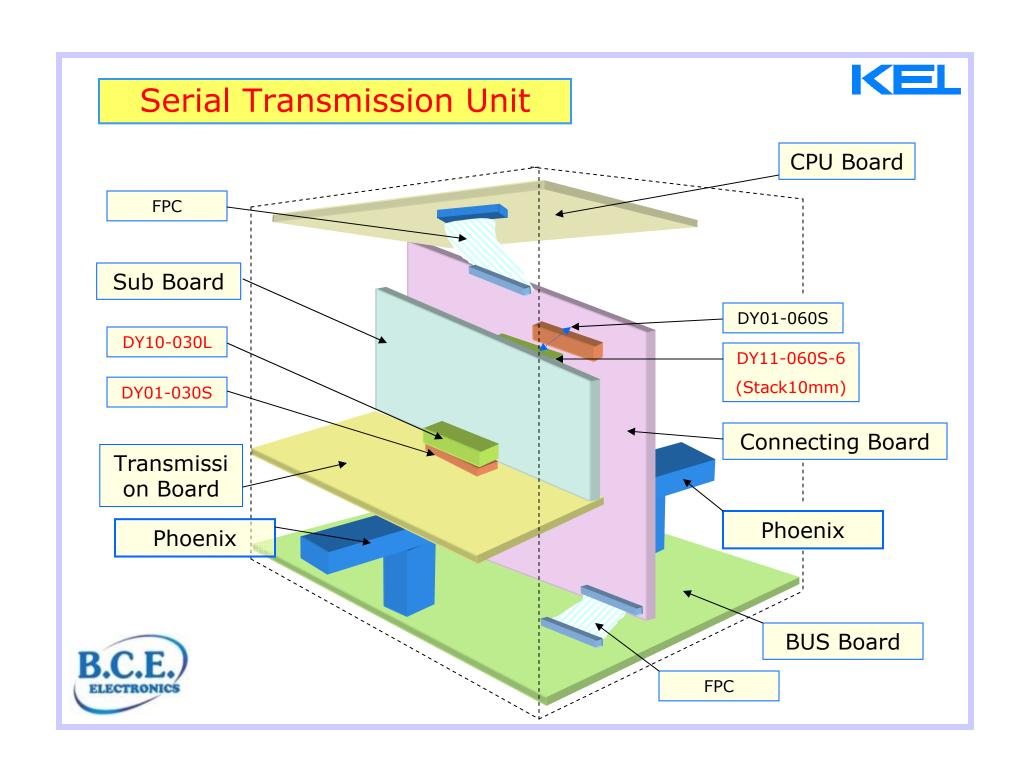






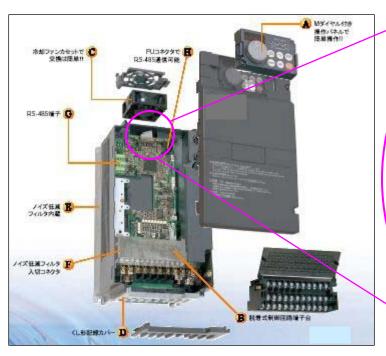
### PLC for high speed telecom





### Inverter board







Key words: half pitch compact design needs 8925R





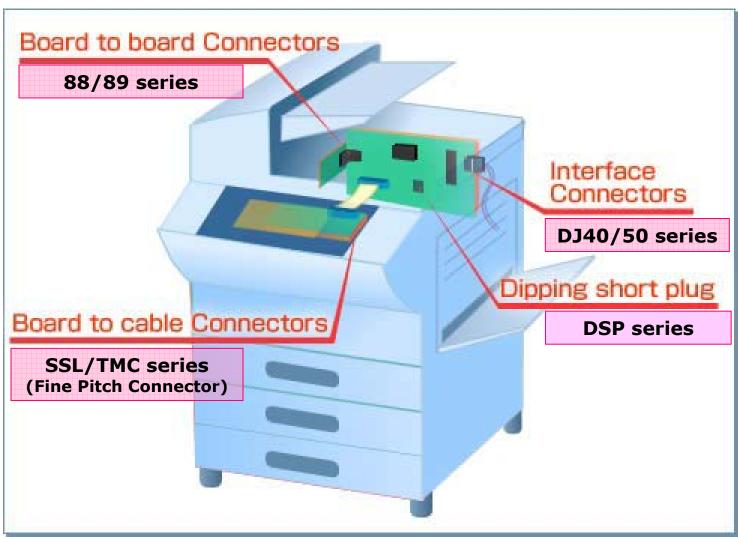
### Multifunction Peripherals (Printer)



### Digital MFP





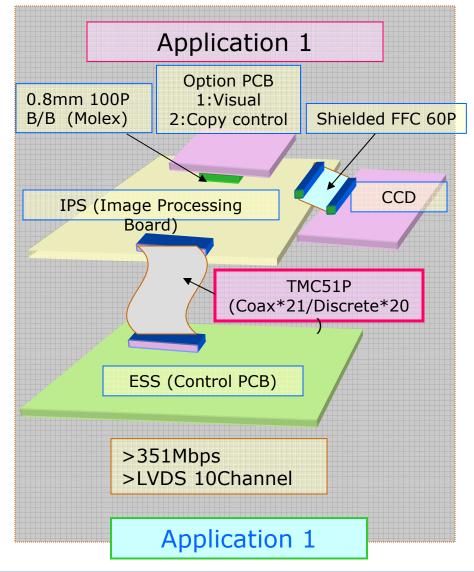


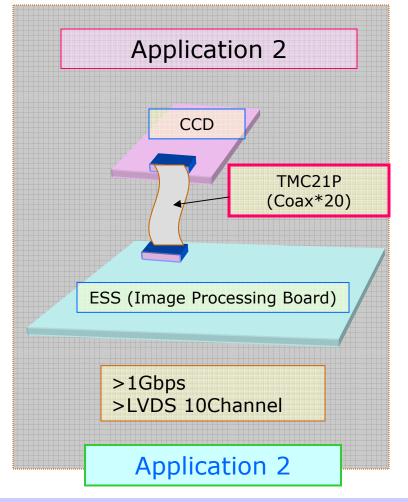


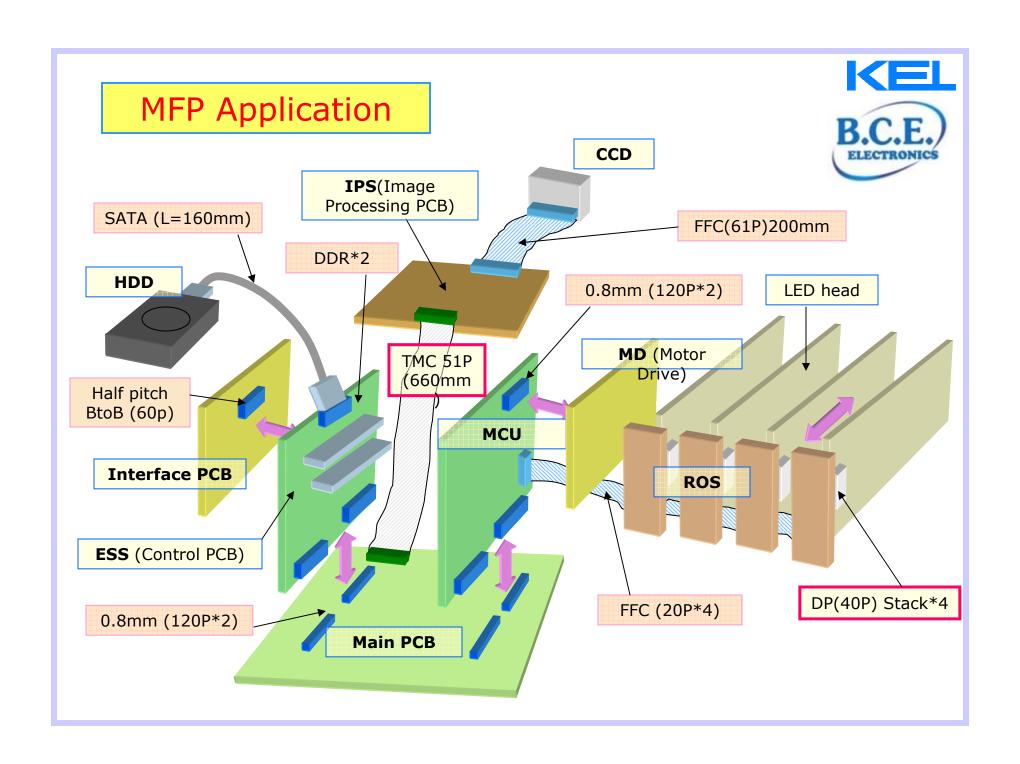




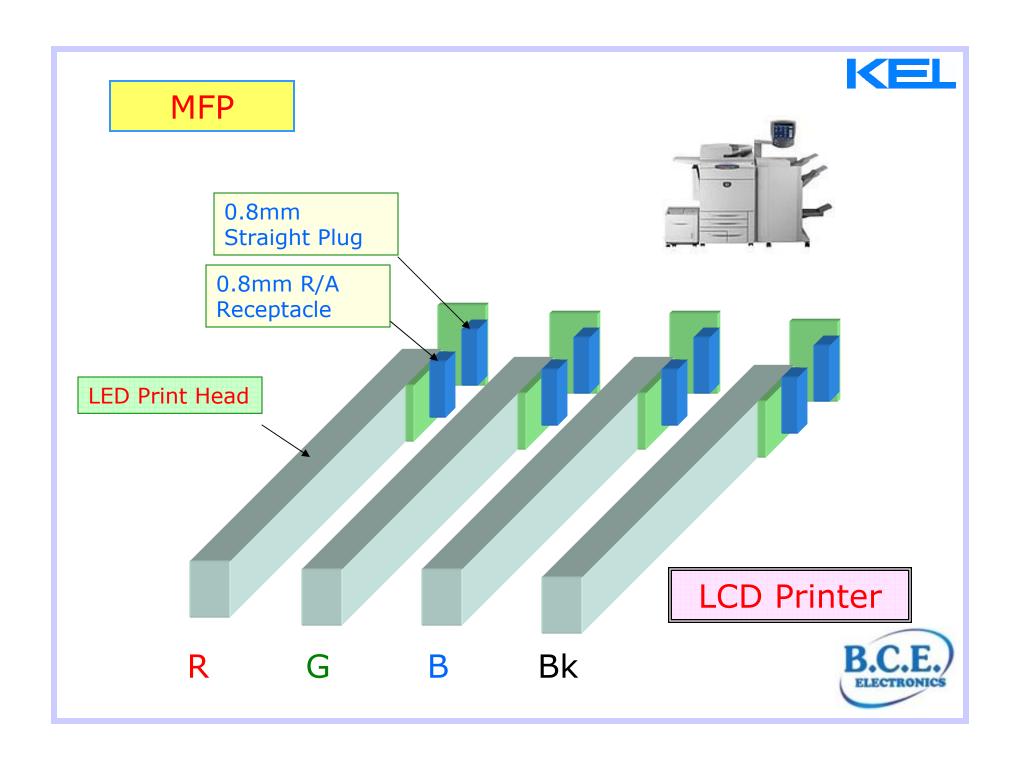








### KEL Copy Machine TMC20-21\*(4) ← TMC20-51\*(1) Leaser Diode Engine control LD-M **D-CON Board** LD-C LD-K TMC00-51L TMC00-21S\*4 **Key words: radiation noise**







### KEL Products Applications for

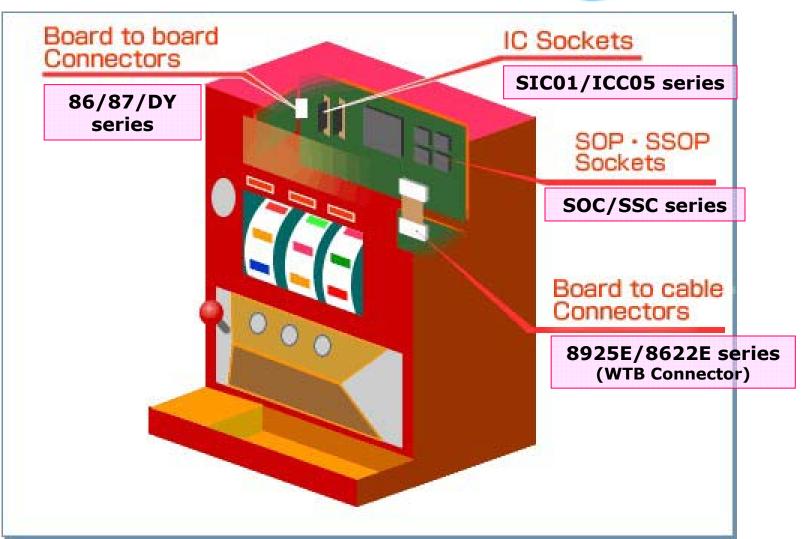
**Gaming Machine** 



### Gaming machine







### Visual/Sound Device: Gaming machine







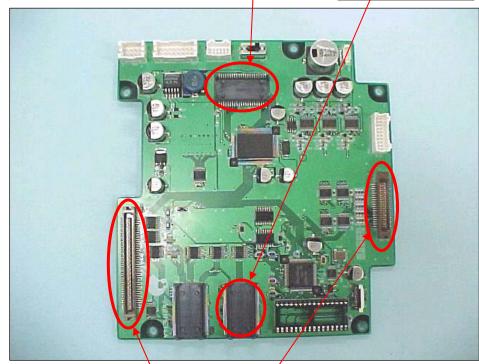
#### Pachinko, Japanese gaming machine

(SOC series, SOP Socket)

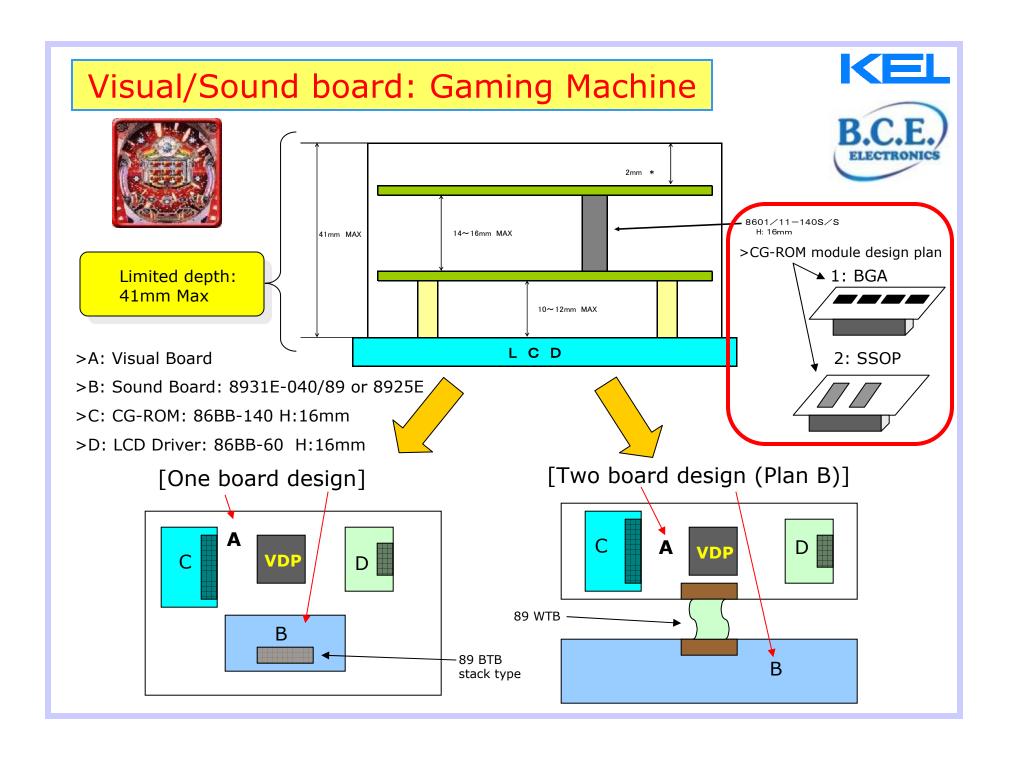
(SSC series, SSOP Socket)

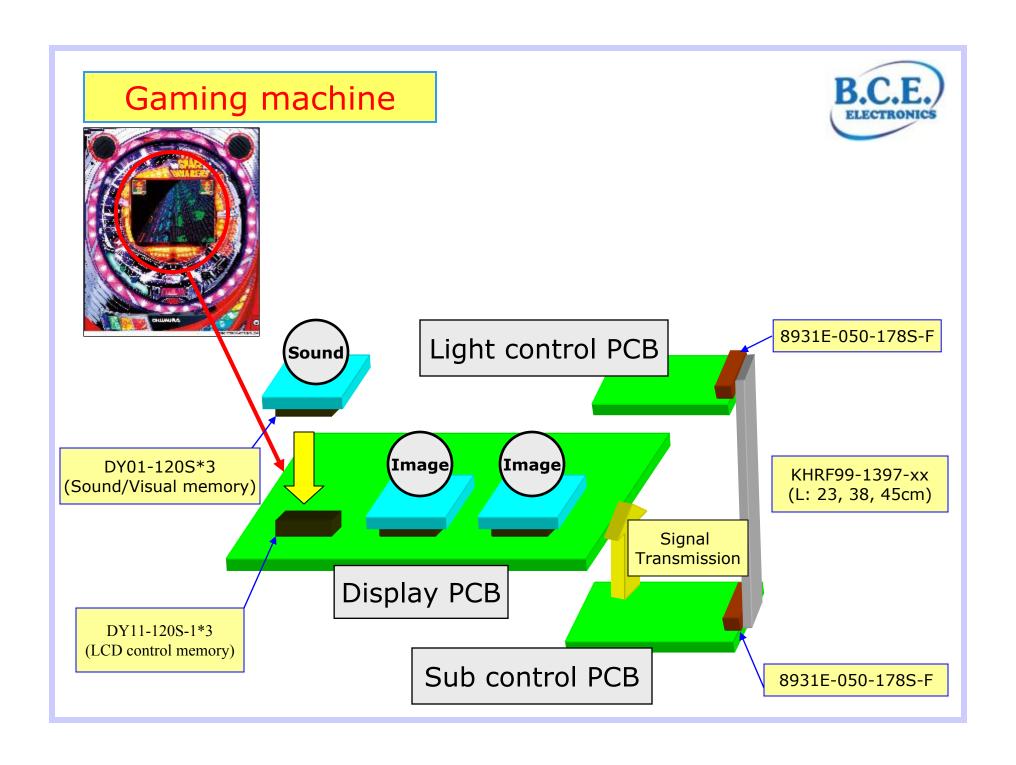






8900 BTB series









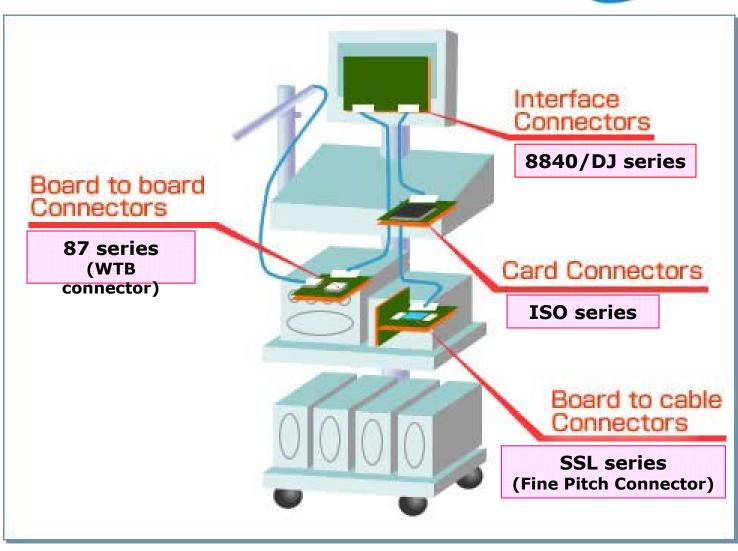
## KEL Products Applications for Medical Machine





### Ultrasonic diagnostic Equipment



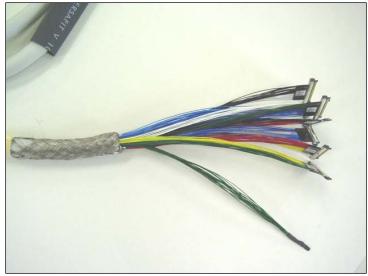


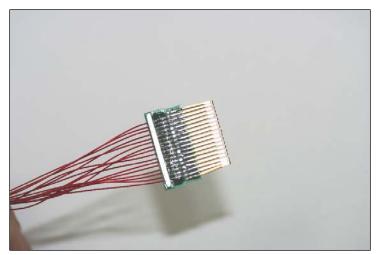


### Endoscope (Multiple micro coax wiring)









Product Image



# Thank you!

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Tel: (+39) 0536 811616 Fax: (+39) 0536 811500 E-mail: <u>bce@bce.it</u> -Web: <u>www.bce.it</u>