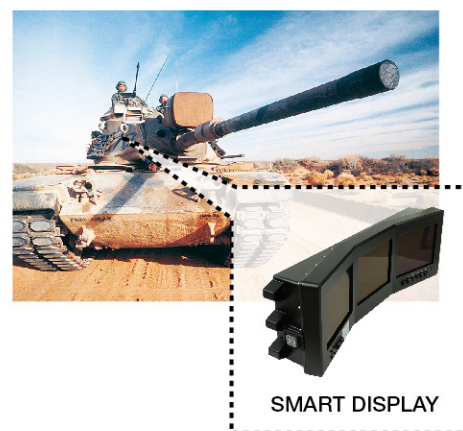**DURABOOK**
Tactical Solutions

TACTICAL
SOLUTION

Durabook Tactical Solutions

Durabook Tactical Solutions utilize "Key Common Blocks" and custom design parts to create specific system product for customer request which helps facilitate quick products release.

Durabook adopts the KCB concept to break down system into several "blocks" using "modular design" as a more cost-effective and mission-efficient hardware standard for satisfying time-sensitive requirement in government, aerospace, and defense entities.
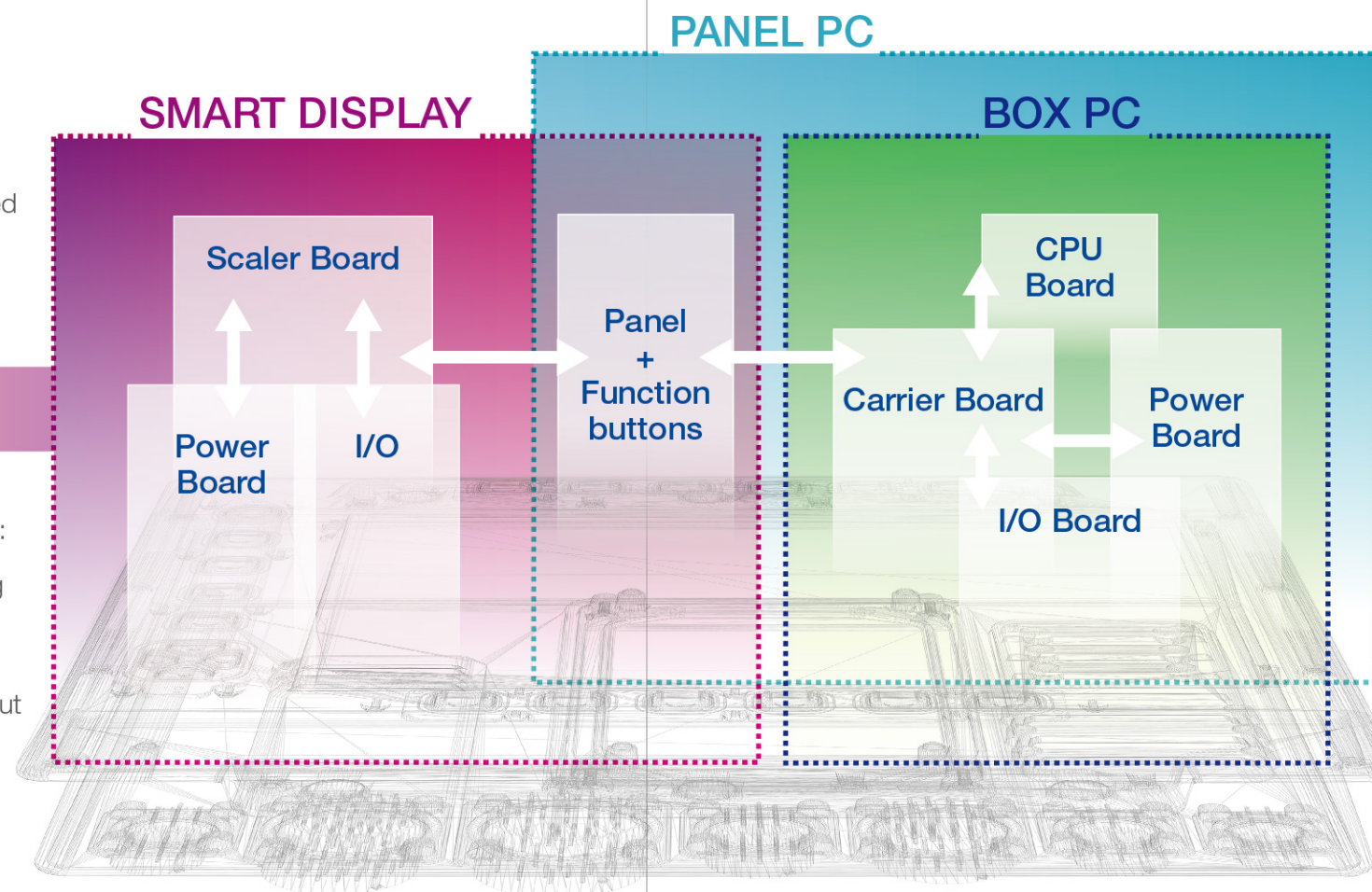
SMART DISPLAY

Architectural Structure:

A fundamental KCB structure is composed with 5 major modular designs, **Smart Display, CPU Board, Carrier Board, Power Board, and I/O Board.** By adding extended various components, the Durabook Tactical Solutions can generate three main systems: Panel PC, Box PC, and Smart Display.

Exclusive Scaler Board Design

The scaler board is an exclusively design which supports most of rugged display products with below specifications:

· Video Output: LVDS up to 1920x1200 @60Hz supporting Picture in Picture, TH On Screen Display
· Video Input: VGA, HDMI, DVI and DP, PAL/NTSC x4
· Other I/O: USB 3.0 x4, stereo audio in x4, stereo audio out x1, Mic. X1, UART x1, GPIO x8, IR receiver…etc.

PANEL PC

SMART DISPLAY

BOX PC

Scaler Board

Power Board

I/O

Panel + Function buttons

CPU Board

Carrier Board

Power Board

I/O Board

COM Express Standard for CPU Board Enhances Customization Flexibility

For SBCs (Single Board Computers), CPU, chipset and rounding I/O are in close context due to the single board design. Therefore, customizing an SBC requires complex design and layout changes. However, Durabook Tactical Solutions adopts **COM Express standard (2.1 basic form factor 125x95mm)** for CPU board and Carrier board. COM Express integrates processor, chipset, memory and some supporting components on a separate smaller PCB. COM Express is built with special Interface connectors for all signals to carrier board.

Durabook CPU Board follows COM Express™ standard pinout Type 6 Rev. 2.1 and adopts the 4th Generation Low Power Intel® i7/i5 U-Series, supporting upto 16 GB DDR3L SDRAM at 1600MHz. Two DDI channels and one LVDS support three independent displays. Four SATA 6 Gb/s, two USB 3.0, six USB 2.0 and **100+ Function keys** are all design ready.

DURABOOK Tactical Solutions

PANEL PC

SMART DISPLAY

BOX PC

SMART DISPLAY

Durabook Tactical Solutions Advantages

| Provides Quick Turnkey Solution | Cost Effective | Minimize Customization Effort | 100% Comply To Specification | Customized Mounting Solutions | Designed For Armored Vehicles | Comply To Full Military Standards | Proven Solutions |

Tactical System Terminal Applications:

Durabook Tactical Solutions provide high level of ruggedness to handle the shock/vibration generated by vehicle or surrounding explosives. Compliant with army ground level of MIL-STD-461F and MIL-STD-810G for extreme temperatures, shock/drop/vibration, and ingress protection (IP67) for military vehicle applications.

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