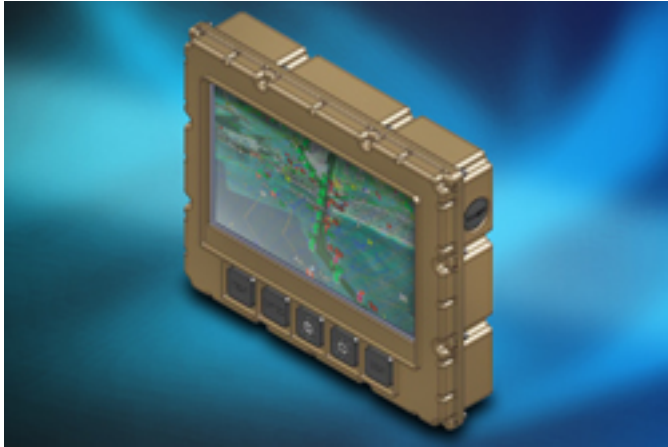# Seven-inch Display Touts Desirable SWaP-C, High Integration

IEE, Inc. offers a rugged 7" browser control display unit (B-CDU) that offers exceptional SWaP-C properties with enhanced graphics capabilities. The new, low cost display combines low power consumption of only 5 W with high processing for increased reliability, making it appropriate for a large number of new and existing military applications, such as smart driver displays, vetronics displays and graphics or video enabled control units. The intuitive operator interface also makes the B-CDU suitable for logistics support, condition-based maintenance (CBM) and embedded training. By using an advanced, highly integrated ARM processor operating at 720 MHz, the rugged, flat panel touch display can accommodate both embedded video decoding as well as 2D/3D graphics processing. This gives system engineers the flexibility to incorporate the latest in video/graphics performance into new and existing embedded designs.

The new B-CDU operates as a thin-client network device for easy integration into display systems. Its COTS-based Linux operating system provides simple programming while the industry-standard 10/100Base-T Ethernet communication protocol and HTML 5.0/JavaVM software support enable the display to function as a simple web device. Existing web-based graphics and screens can easily be viewed and refreshed on the B-CDU.

Whether used as a hand-held or vehicle-mounted display, the new 7" unit offers a WVGA color transflective LCD with a resolution of 800 x 480 x RGB, readable in a wide range of ambient lighting conditions from night vision imaging system (NVIS) to sunlight. It comes in a lightweight, yet highly durable, composite housing. The integral resistive touchscreen is enhanced with a single row of five sealed dome switch snap-keys designed to be operated in the most severe environments, such as with MOPP-IV gloves or Arctic mittens.

Intrinsic military intelligence features include a 'zeroize' function that clears the system memory in an emergency situation as well as a 'covert' switch that immediately turns off the display and key backlights to prevent device detection in mission-critical conditions.

Typical display brightness is 550 cd/m2 with horizontal and vertical viewing angles of ±80 degrees. High ambient readability, measured as contrast ratio, is enhanced through the use of a transflective display technology and the application of enhancement filters and AR/AG films. The B-CDU weighs only 2 lbs and features an operating temperature of -20°C to +71°C in altitudes up to 36,000 ft, with operation down to -40°C available with an optional heating unit.

IEE, Inc.
800-422-0867, http://ieeinc.com [1]

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