



GORE™ snapSHOT® Board Level Shield

RUGGED HANDHELD COMPUTER APPLICATION SUMMARY

Improve signal integrity in low-profile handheld devices for rugged environments

Application Overview

A customer was developing a new generation of a handheld computer for use in rugged industrial environments. The device offered five separate radio interfaces — GPRS, CDMA, GPS, 802.xx WAN, and Bluetooth. Key issues for this application include the following:

- Reliable data transmission without interference among the separate interfaces
- Minimized stack-up
- Low-profile package

The device's stack-up included a display, a keypad, multiple boards for processors, the radios, and memory. The customer quickly realized that traditional cans would not meet the low-profile requirements for the device.

The Gore Solution

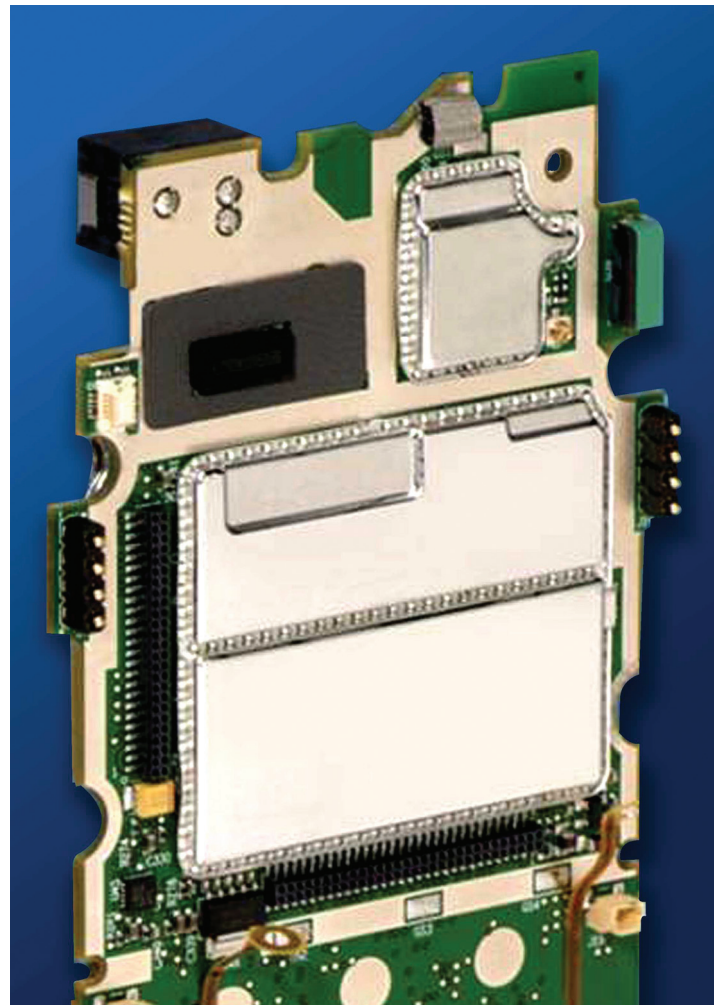
GORE™ snapSHOT® Board-Level Shields improve shielding effectiveness by more than 10 dB, providing excellent signal isolation between critical areas. Using these flexible, multi-cavity shields,

the customer was able to focus on effective PCB design and mechanical layout without being limited by the shape of traditional shielding cans. GORE™ snapSHOT® Board-Level Shields reduced the product profile by varying the height and shape of each of the nine shields used in the handheld computer.

Realize the Benefits of GORE™ snapSHOT® Board-Level Shields

- Reduced product size from thin, low-profile shields
- Reliable signal transmission with excellent EMI shielding among critical areas
- Increased PCB design flexibility with the capability to customize the shape of the shields

Drawing on more than 50 years of experience in fluoropolymer research and applications, W. L. Gore and Associates continues to engineer innovative products for board-level shielding. For assistance in selecting the right shielding product for your application, contact your Gore representative today.



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