

NEW PRODUCT ANNOUNCEMENT

Taking Your Bonded LCDs to Greater Extremes with GenGard F801

22 OCTOBER 2018: General Digital is excited to announce **GenGard F801™**, the next *revolution* of LCD bonding, specially processed for high altitude, extreme temperatures and severe shock and vibration.



Ideal for high altitude applications



Withstands pressurized cargo bays (international flights)



Endures heavy shock, vibration, temperature extremes



Protects against condensation from high humidity

Please contact General Digital to speak with an Applications Engineer to learn more about **GenGard F801's** ability to protect your display in extreme environments.

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General Digital's Optical Bonding Laboratories answers the call for bonded LCD assemblies that will survive increasingly hostile and demanding environments. Our next generation **GenGard F801** is more than just a revolutionary space-age bonding material—it is a **process** that ensures the flawless application of the material, resulting in bonded displays that consistently perform, day in and day out. As such, **GenGard F801**-processed LCDs will endure:

- » High Altitude Pressures (up to 60,000 feet)
 - › Operational display systems installed in commercial and military aircraft
 - › Products that require transcontinental or international transportation in cargo bays at high altitudes
- » Extended Temperatures*
 - › -45°C (limited exposure to -55°C) to +200°C†
- » Heavy Shock and Vibration
 - › Designed to meet most military requirements‡
- » Force
 - › Select solution tested withstood 9600 clamping cycles on the bonded screen with a clamping force of 1000 N distributed over an area approximately 120 mm x 100 mm within the screen bezel
- » Condensation and Moisture Prevention
 - › Removes air gap between all bonded surfaces to eliminate any potential for condensation

GenGard F801 Checks All the Boxes

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|------------------------------------------------------|---------------------------------------------------|-----------------------------------------------|--------------------------------------------------|
| <input checked="" type="checkbox"/> High Temperature | <input checked="" type="checkbox"/> High Altitude | <input checked="" type="checkbox"/> Vibration | <input checked="" type="checkbox"/> Moisture |
| <input checked="" type="checkbox"/> Low Temperature | <input checked="" type="checkbox"/> Force | <input checked="" type="checkbox"/> Shock | <input checked="" type="checkbox"/> Condensation |

With over 16 years of bonding experience to date, Optical Bonding Laboratories' engineers continue to research and develop specialized processes to meet the increasing demands of most military, aerospace, marine and industrial requirements. **GenGard F801** was borne of this evolution of excellence, providing our customers with ever greater confidence in the durability of their bonded displays.

Please contact General Digital to speak with an Applications Engineer to learn more about **GenGard F801's** ability to protect your display in extreme environments.

**Extremes are limited by component selection (e.g., LCD and overlay)*

†Optical bond only; selection of display, overlay and other electronics will affect temperature extremes of the complete assembly

‡Compliance is influenced by many design and integration factors, which is best discussed with an Applications Engineer to ensure that the customer's requirements are met

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