

Display Systems



COMPANY CAPABILITIES

DISPLAY PRODUCTS, MONITORS AND ACCESSORIES

General Digital is a U.S.-based manufacturer that provides a wide variety of display solutions. For nearly every application requirement, General Digital offers rack mounted, panel mounted, flip-up/flip-down and standalone monitor solutions that meet the demands of commercial, industrial, military, marine, simulation and aerospace environments.

- Enhanced LCDs (Display Only)
- Display Head Assemblies
- Monitor Kits
- Rugged Monitors
- Smart Displays
- Large Format Tough LCD Monitors
- Rack Mount Keyboards and Desktop Keyboards
- Waterproof/IP67 Environmentally-Sealed LCD Monitors

Having an intimate familiarity with industry and military design requirements and standards, our solutions have met many challenges, as listed below.

- Army, Navy, Air Force, Marines, Coast Guard Requirements:
 - MIL-STD-901D (Shock, Shipboard)
 - MIL-STD-167-1A (Vibration, Shipboard)
 - MIL-STD-810F/G (Environment)
 - MIL-STD-461E/F (EMI)
 - MIL-STD-704F
- Air Traffic Control and Aerospace Requirements:
 - FCC Part 15 Class A/B (EMC)
 - UL60950-1 (Safety)
 - EN 61000-4-2 (ESD)
 - RTCA DO-160
 - DO-178
 - DO-254
- Industrial/Maritime Requirements:
 - IP67
 - NEMA 6
 - ECDIS



SOFTWARE SERVICES

For over 40 years, General Digital has maintained a reputation for meeting our customers' demands with accurate, on time, and cost-efficient software services.



SOFTWARE DEVELOPMENT

- Embedded Firmware Development
- Software development in many languages, including:
 - ADA, Android, Assembly
 - C/C++, Eclipse, IOS
 - LabView, Perl, Python
 - QML, Qt, Qt Creator
 - SQL, TCP-based protocols
 - VB.NET, Visual Studio
 - WPF, XAML, Xamarin
 - Human Machine Interface
 - Many More

SAFETY-CRITICAL SOFTWARE IV&V SERVICES

Independent Verification & Validation Standards:

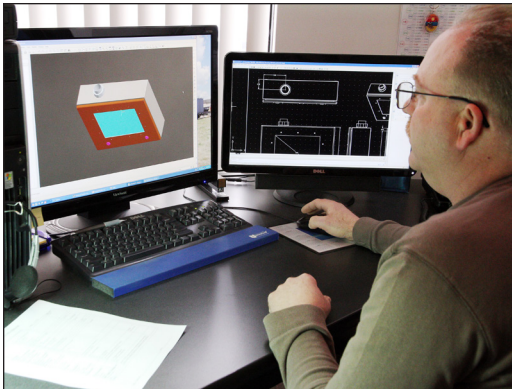
- Avionics/Military
 - DO-178
- Medical
 - FDA, IEC62304, CE
 - QMS Validation, ISO13485
- Transportation
 - IEC62279, IEC61508, IEC26262
- Industrial
 - IEC61508, IEC61131
- Cybersecurity Assessment & Mitigation
 - Multiple Industry Certification Levels

COMPANY CAPABILITIES

ELECTRICAL ENGINEERING/DESIGN

General Digital's Electrical Engineering team possesses the experience and expertise to design systems and applications tailored to meet your specific requirements.

- LED Backlight Design
 - Sunlight/daylight readable
 - NVIS displays
 - Edge-lit and direct-lit backlights
- Video compatibility verification and custom signal creation and matching using Quantum Data QD701A and 881D programmable video generators
- Systems Engineering/Systems Integration
- Power Management Design
- Analog and digital schematic and printed circuit board design
- Embedded Systems
- FPGA and HDL



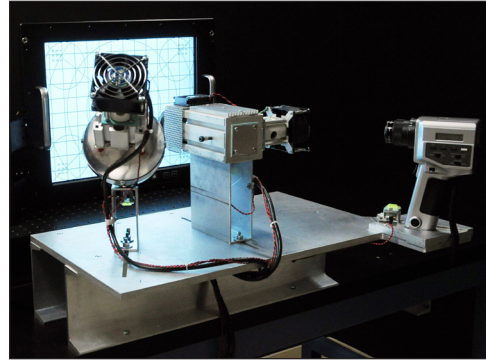
MECHANICAL DESIGN

General Digital's Mechanical Engineering team designs products compliant to customer-specific requirements—such as brackets, bezels, and enclosures—for commercial, industrial, marine, aerospace and military marketplaces.

- 3-D/CAD Design
- Thermal Analysis
- Specialists in designing stationary and sliding rack mount equipment for commercial, industrial, military, marine, simulation and aerospace applications

OPTICAL ENGINEERING/DESIGN

General Digital's Optical Bonding Laboratories' engineers understand the challenges faced by today's display users. Regardless of the display technology, we have the knowledge and expertise to vastly improve your display performance.



- Optical Bonding
 - Silicone Bonding
 - UV Bonding
 - Epoxy Bonding
- Film Optimization
- Light Guides
- Lamination Services
- Selection and integration of optical/display enhancements
- All display disassembly, integration and reassembly performed in Class 10 clean room or Class 100 laminar flow bench using ion showers and guns
- In-house Optical Testing Laboratory
 - Quantification of standard and Weber contrast of OEM, customer-supplied, and General Digital-enhanced displays conforming to MIL-STD-3009
 - Quantification of optical luminance, uniformity, and chromaticity
 - Quantification of AG gloss properties of overlays and touch screens
 - Calibration of monitor color using SpectraCal Calman Pro software for accurate color representation and color coherence across multiple display systems
 - Quantification of wideband spectral components and NVIS capability

COMPANY CAPABILITIES

LASTING PARTNERSHIPS

At General Digital, Cooperation is one of our keys to success.

For over 40 years, General Digital Corporation has served a variety of markets through innovative design and implementation.

Today, we continue to partner with our customers to ensure the end product is an advanced design of the highest quality. Our innovative engineering capabilities can be evidenced in our diverse line of LCD monitors and associated hardware products, display enhancements, contract manufacturing/ systems integration, and software engineering services.



CODES & ID NUMBERS

PSC | AC64, 5836, 5895, 5955, 5975, 5980, 5998, 5999, 6130, 6150, 7010, 7021, 7025, 7490

NAICS | 334111, 334118, 334119, 334220, 334290, 334310, 334418, 334419, 334511, 541330, 541511, 541512, 541519, 811212

CAGE | 1JA77

DUNS | 065519563

EIN | 060893975

SAM/CCR | Registered

DDTC | Registered

Corporate Structure: SBA Small Business Concern



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CONNECT

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