

ELGENS®

Valuable Innovation For Defense

PRODUCT SOLUTION GUIDE



Product Certified

MIL-STD461G (CE101/CE102/RE101/RE102), MIL-STD-1275E
MIL-STD-704F, MIL-STD-810H, IEC60945, FIPS203 ,204 ,205

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WHY ELGENS



With 15+ years of defense and industrial experience, ELGENS operates under the mission “Valuable Innovation For Defense” as a hardware–software integration partner. We deliver mission-ready rugged display and rugged computing platforms—including Rugged Panel PCs, Rugged Computers, and Edge AI Computers—for military programs, system integrators, and prime contractors. We support 77 active long-term customer accounts across 28 countries, focusing on verifiable reliability, compliance, and cybersecurity to ensure mission continuity.

Our strengths include rapid customization/integration, compliance and test support, and ****Security-by-Design****—helping partners shorten deployment timelines and reduce program risk. Solutions can be tailored to IEC 60945 and key MIL standards (e.g., MIL-STD-810H, MIL-STD-461G, MIL-STD-1275E, MIL-STD-704F). For cybersecurity, we can evaluate TLS 1.3 + PQC quantum-resistant communications and support TPM-based hardware root of trust to enhance long-life cyber resilience.

Display platforms offer up to 1500 nits high brightness (with fine dimming control) and ruggedization options such as optical bonding, strengthened cover glass/protective windows, impact protection, and ****AG + AR (anti-glare + anti-reflection)**** treatments to improve sunlight readability and suppress reflections.

We advance mission assurance through innovation while maintaining serviceability and long-term deployment readiness, building enduring partnerships across customers and the supply chain.



CEO *Santiago*

77+ Clients (Cross-Industry)	28+ Countries.	25 Distributors.	62 Total Certification.	4000+ Production Capacity.	30% Revenue YOY.
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* As of September 30, 2025

TDM-D Series



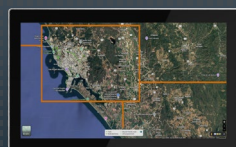
Multi-size rugged displays built for outdoor clarity and dependable operation in harsh defense and industrial environments.

LPC-D Series



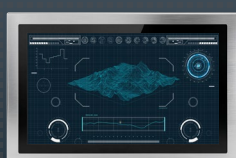
PQC-ready multi-size defense Panel PC delivering trusted cyber resilience and mission reliability in demanding deployments.

LPC-P Series



Mission-ready multi-size Panel PC engineered for sustained performance, reliability, and streamlined integration across platforms.

Stainless Steel Series

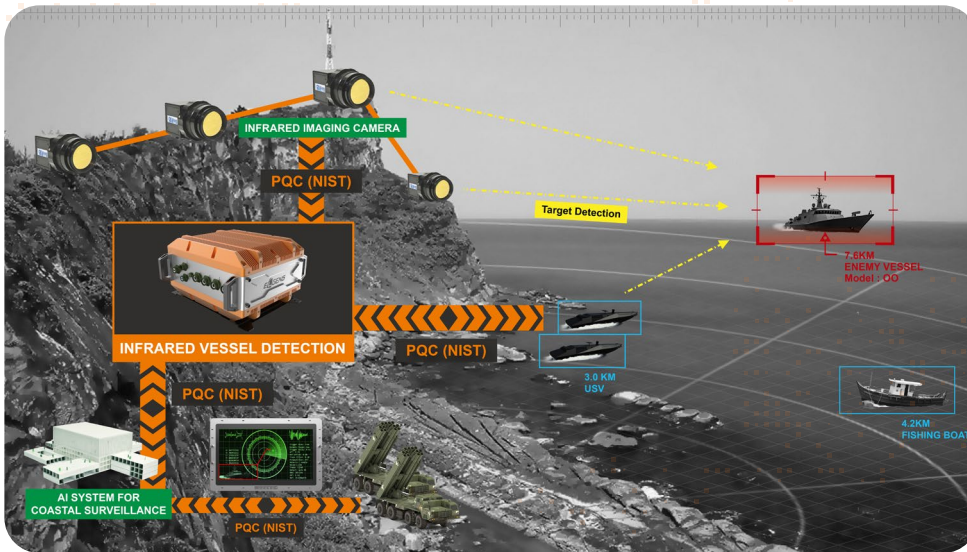


Stainless steel navy Panel PC designed for bridge cabinets, delivering silent fanless computing and long-life support.

X-CORLEONE Series



From Cloud to Combat, a Secured AI Server in Edge.



Feature

- ▶ Military-Grade Reliability Compliant with MIL-STD-810H/461G, wide-temp operation (-40°C to 70°C), fanless design
- ▶ Dual TPM Key Authentication Encryption
- ▶ Ruggedized & Sealed Design IP67, salt-fog resistance, corrosion protection
- ▶ Customizable I/O & Military Connectors (MIL-DTL-38999)
- ▶ NIST approved PQC (Post-Quantum Cryptography) standards including FIPS 203 & 204
- ▶ Quantum Safe TLS (Transport Layer Security) Communication

Advantage

- ▶ Ensures stable operation in harsh environments with reduced failure risk
- ▶ Provides hardware-level dual-key architecture for secure boot, device authentication, and full disk encryption.
- ▶ Withstands dust, water, and corrosive environments
- ▶ Flexible system integration for diverse missions
- ▶ Leading security solution for defense computing
- ▶ Provides end-to-end encryption, ensuring data integrity and confidentiality during transmission

Benefit

- ▶ Customers can deploy systems confidently in mission-critical and outdoor applications with minimal downtime and lower total cost of ownership (TCO)
- ▶ Customers gain an additional security layer, making unauthorized system access nearly impossible and meeting high-level defense and government security standards
- ▶ Extends product life cycle and reduces maintenance frequency, providing long-term protection
- ▶ Customers can adapt the system to specific military operational needs, saving development time and accelerating deployment
- ▶ Safe grounding communication to prevent Harvest-now-decrypt-later (HNDL) attacks
- ▶ Customers can securely transmit AI models, control signals, and mission data without fear of interception, reducing risks of Man-in-the-Middle (MITM) attacks and building trust in networked deployments

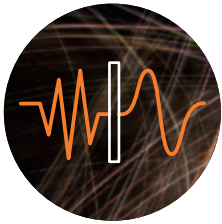


Explore Defense
Product Line

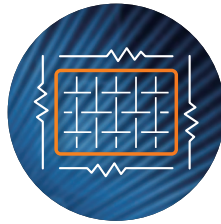
ELGENS Product Roadmap

ELGENS' product portfolio spans complete computing and display solutions for defense and mission-critical operations—from rugged front-line terminals to back-end command and integration platforms. It enables real-time data processing, stable connectivity, and reliable control to support multi-domain missions across land, sea, and air. ELGENS rugged displays, mission computers, and embedded computing platforms integrate seamlessly at the system "Mission Edge," helping customers accelerate system integration and deployment under the key requirements of low latency, high reliability, and long-term supply consistency. The portfolio is structured into three tiers: Rugged Display, Mission Computing, and Secure/AI Edge, addressing the needs of different platforms, mission vehicles, and security levels.

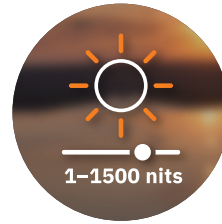
Customization Options



EMI Filter



EMI Mesh



Brightness Control



Optical Bonding

Rugged Displays

- MIL-STD Certified: 704F / 1275E / 461G / 810H
- -40°C to +70°C: Cold Start Ready
- 9–36 VDC Input: 90W Adapter Included
- Secure I/O: D38999 / D26482 Connectors
- Rugged Build: Metal Chassis + Tempered Glass
- Sunlight Readable: 1500 nits, AG + Optical Bonding

TDM-D Series

TDM-D240 / TDM-D215



TDM-D240 -00C / TDM-D215 -00C



- Rapid Deployment: Flush/Wall/VESA Mount.
- OSD Hot Key: Power/brightness quick keys.
- Stable Supply: 10-year support with EOL notice

Rugged Panel PC

- PQC-Ready: NIST FIPS 203/204/205.
- Extreme Reliability: -40°C to 70°C with Cold Start.
- Fanless Thermal: Silent, dust-resistant; built for high-vibration use.
- High-Performance Edge Compute: 14th Gen Intel Core up to 35W.
- Rugged Build: Metal + tempered glass; impact/vibration resistant.
- Sunlight Readable: 1500 nits, AG + Optical Bonding

LPC-D Series

LPC-D240 / LPC-D215 / LPC-D156



- Military-Grade Compliance: MIL-STD-704F/1275E/461G + MIL-STD-810H.
- Secure Connectivity: D38999 I/O + D26482 power; anti-disconnect.
- Stable Supply: 10-year support with EOL notice.

ATC Tower Displays

- 1920×1920: ATC-optimized. Ideal for radar/maps.
- 22" Bezel-Free: Console-ready. Clean integration.
- 700 nits: High visibility. For bright towers.
- AG Glass: Low glare. Better readability.
- Backside OSD: Quick tuning. Shift consistency.
- DC 9–36V: Stable power. Backup-friendly.

TDM Series

TDM-B220SHAG



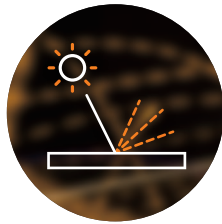
- Optional Available P-cap Touch USB Interface
- Optional Available MIL -STD-704F Filter
- 2K x 2K Resolution

In this era of transformation, ELGENS is committed to accelerating the field deployment of defense AI applications, built on Cybersecurity-by-Design, qualification-ready engineering capabilities, and ruggedized design. Our flagship platform, X-Corleone, deeply integrates hardware, software, and cybersecurity requirements to meet defense-oriented standards and program needs. As a driver of Taiwan's defense innovation, we are progressively integrating AI into specialized systems such as military-grade displays, rugged touch computers, servers, and night-vision/thermal imaging cameras. Through supply-chain integration and collaboration, we are building a more complete defense ecosystem to enhance operational efficiency and security.

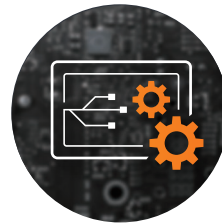
Looking ahead to the next decade, ELGENS will not only be a technology provider, but also a key enabler of defense intelligent transformation—working with partners to build a safer, smarter, and more sustainable future.



Vandal-Proof



AG/AR Coating



LCD Dev Kits



Power Mode

Cockpit Displays

316 SS Housing

Rugged Computers

- Redundant display
- -30°C to +70°C wide-temp operation
- Reinforced + 10–55 Hz vibration-proof
- Ultra-wide, high-brightness
- Bar-type form factor
- AG surface, low glare
- Normally Black, wide viewing

LDK Series

LDK-156 / LDK-256



- Shown: 24" × 9" (25.6"), 3200 × 1200
- Customizable sizes:
 - Army: 15.6", 18.5", 24"
 - Navy: 20.1", 21.3", 21.5"
 - Air Force: 22", 25.5"
- Scan for test videos



- 316 Stainless Steel: Corrosion-resistant.
- -20°C to +60°C (IEC 60068-2-1/2/14)
- 6-Side IP65: Sealed bottom I/O.
- 21.5" FHD PCAP: Flat bezel-free touch.
- DC 12–24V Input: Power flexibility.
- Dual M.2 + 2.5" Bay: Flexible storage/expansion.

LPC-LM Series

LPC-LM156W / LPC-LM215W / LPC-LM240W



- Display sizes: 15.6"–24".
- Vibration :1.5 Grms @10~500Hz, IEC-60068-2-64
- Optional 9~36VDC Wide Range Power Input
- Optional 90~264VAC Power Input

- MIL-Spec Embedded Box PC
- PQC-Ready: NIST FIPS 203/204/205.
- Extreme Reliability: -40°C to 70°C with Cold Start.
- Fanless Thermal: Silent, dust-resistant; built for high-vibration use.
- High-Performance Edge Compute: 14th Gen Intel Core up to 35W.
- Rugged Build: Metal MIL Std I/O Connectors.

DRC Series

DRC-3000 (Compact, Slim)



DRC-6000 (Scalable for I/O Expansions)



- Power Ignition Management 9~48VDC
- 4-port GbE module with Intel® I350 Chipset, RJ-45 or M12 (PoE optional)
- 2-Port 10GbE RJ45 with Intel X710 Chipset

CASE STUDY

ELGENS Panel PC for JMSDF Engine Room – Real-Time Monitoring

The LPC-P190SH-XX 19-inch panel PC is installed in the engine room control center of Japan Maritime Self-Defense Force vessels, providing commanders with real-time, precise system monitoring. Its anti-glare coating and 1000-nit high-brightness display ensure clear visibility even under direct sunlight, reducing eye strain. Built to IEC-60945 standards and operating between -20°C and 70°C, it delivers reliable performance in harsh maritime and engine room conditions, meeting JMSDF's demanding mission needs.



ELGENS Panel PC for Forward Operating Base – Genset Control

ELGENS provides rugged panel PCs designed for outdoor command bases, installed on generator trucks as core control units. They ensure stable operation and uninterrupted monitoring in harsh environments.

With heat dissipation technology supporting -30 to 70°C, these panel PCs withstand extreme weather, enabling rapid military deployment and improved battlefield command efficiency.



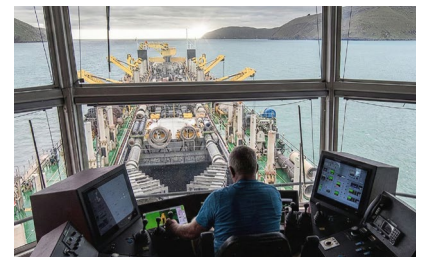
ELGENS Panel PC for Hillside Recon – Situational Awareness

ELGENS offers a 12.1-inch widescreen panel PC (model LPC-P121W-xx) designed for reconnaissance and attack command in harsh military environments. Installed on portable rocket systems on hills, it detects and collects key enemy supply and patrol data, then executes attack commands. The panel PC operates down to -30°C and features a 1000-nit high-brightness display for clear outdoor visibility. It enhances battlefield awareness and rapid response, improving command efficiency.



ELGENS Panel PC for Naval Deck – Extreme Temp Stability

It operates reliably in temperatures from -30°C to 70°C and features 1500 nits brightness with 1024 adjustable levels, including a very low setting of 1-2 nits. The monitor supports 1 HDMI, 1 DisplayPort, RS-232 for remote control, and RS-485 for multi-monitor connection. Customized Picture-in-Picture software enhances flexibility. This rugged marine-grade monitor ensures reliable performance and precise remote control for demanding naval operations.



Partner Zone



Maintenance Centers



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