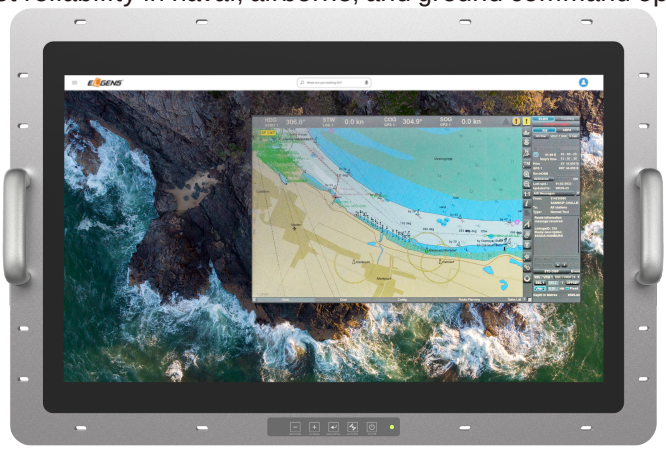
LPC-D215 Series

LPC-D215 Series is a mission-critical 21.5" P-cap defense Panel PC powered by Intel® 14th Gen processors and secured with NIST-approved Post-Quantum Cryptography (FIPS 203/204/205). Certified to MIL-STD-810H, 461G, 1275E, and 704F, it offers a 1500-nit anti-glare, optically bonded sunlight-readable display, rugged D38999 connectors, IP65 front protection, and -40°C to 70°C “Cold Start” capability. Designed for shipboard CIC, bridge consoles, shore-based C2 and C4ISR centers, aircraft maintenance hangars, and USV/UGV platforms, it ensures robust reliability in naval, airborne, and ground command operations.



Product Highlights - Advantages and Benefits

- **PQC-Proof Quantum Security (Optional by Customer Request) :** Integrates NIST FIPS 203/204/205 compliant Post-Quantum Cryptography (PQC) to protect sensitive data against "Harvest Now, Decrypt Later" threats.
- **Military-Grade Certification :** Compliant with MIL-STD-704F, MIL-STD-1275E, and MIL-STD-461G for EMC/EMI compliance, as well as MIL-STD-810H for shock and vibration resilience.
- **Extreme Environment Reliability :** Engineered for -40°C to 70°C environments with "Cold Start" technology, enabling immediate system boot-up in freezing conditions.
- **Superior Outdoor Readability:** Equipped with a 1500-nit ultra-bright display, optical bonding, and anti-glare technology for crystal-clear visibility under direct sunlight.
- **Enhanced Durability and Resistance :** The full metal chassis and tempered cover glass provides superior mechanical strength, offering exceptional protection against physical damage, high-impact forces, and heavy vibrations common in industrial settings.
- **Secure Connectivity:** D38999/D26482 military connectors for all I/Os. Prevent accidental cable disconnection.
- **Stable Supply:** 10-year longevity support and proactive notification of EOL.

Specifications

System	
CPU	Intel Gen. 14th Core i3/ i5/ i7 up to 35W Processors
System Memory	2 x 262-pin SO-DIMM DDR5 4800/5600 MHz , up to 96GB (48GB per DIMM)
External I/O Port	1 x USB by D38999 Connector 1 x 2.5 GbE LAN by D38999 Connector 1 x HDMI by D38999 Connector 1 x COM Port (RS-232/422/485) by D38999 Connector 1 x DC Power Input by D26482/MS3114E8 Connector 1 x Power Button 1 x GND Screw for Safety Grounding

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System	
Storage	1 x M.2 (Key M, 2242/2280) with PCIe Gen3 x4 for SSD 2 x External 2.5″ Storage Bay
Opration System	Windows 10 (64-bit) Windows 11 (64-bit) Linux Yocto (64-bit, by request)
Expansion	1 x M.2 (Key E, 2230) for Optional Wireless Module 1 x M.2 (Key B, 3042/3052) with SIM Slot for Optional 4G/5G Module
OSD	5-key OSD including Power key and Function keys

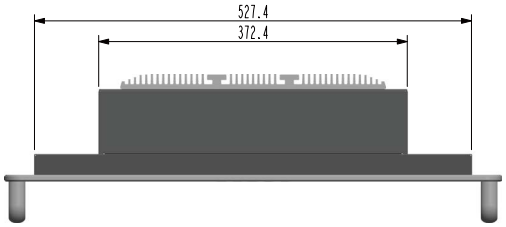
LCD	
Display Type	21.5" TFT LCD
Max. Resolution	1920*1080
Contrast Ratio	5000 : 1
Max. Color	16.7M
Luminance (cd/m2)	1500
View Angle	89/89/89/89

Environment	
Power Input	DC 9~36V, 120W Power Input with MIL-STD-461G/1275E/704F Compliant
Dimension	As the Drawing Shown in 3rd Page
Mounting	Flush Mount
Cerfitication	**EMC** • MIL-STD-461G Compliant (CE101/CE102/RE101/RE102) • MIL-STD-1275E Compliant • MIL-STD-704F Compliant • FCC / CE Class A Certified **Vibration** • MIL-STD-810H, Method 514.8, Procedure I • IEC-60068-2-64, 1.5 Grms @10~500Hz **Shock** • MIL-STD-810H, Method 516.8, Procedure I, 20g 11ms
Operating Temp	-40~70 °C, Cold Start
Storage Temp	-40~70°C
Humidity	10~95% @40 °C, non-condensing

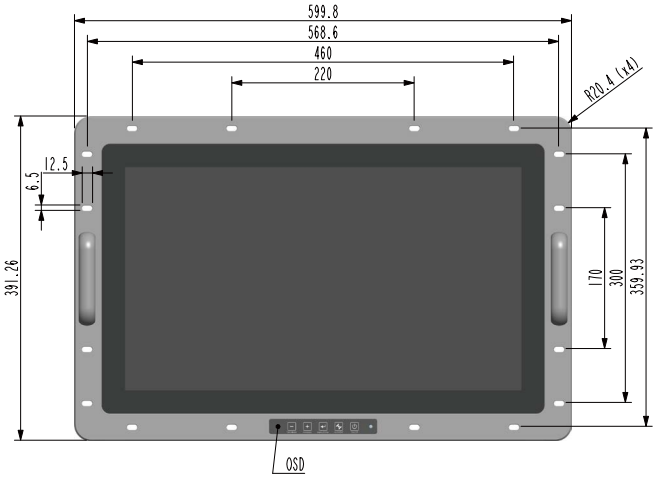
Ordering Information	
LPC-D215	21.5" P-cap Defense Panel PC with Intel® Gen. 14th 35W LGA1700 CPU, AG, IP65 Front side, 1x USB 3.0, 1x 2.5GbE LAN, 1x COM, 1x HDMI and DC 9~36V Power Input , -40~70°C (Cold Start)
LPC-D215-QS	21.5" P-cap Defense Panel PC with Intel® Gen. 14th 35W LGA1700 CPU, AG, IP65 Front side, 1x USB 3.0, 1x 2.5GbE LAN, 1x COM, 1x HDMI and DC 9~36V Power Input , -40~70°C (Cold Start) with NIST approved PQC security software development kit

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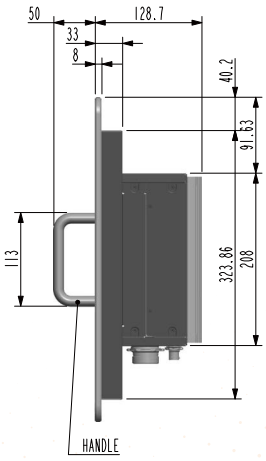
Dimension & I/O Connector

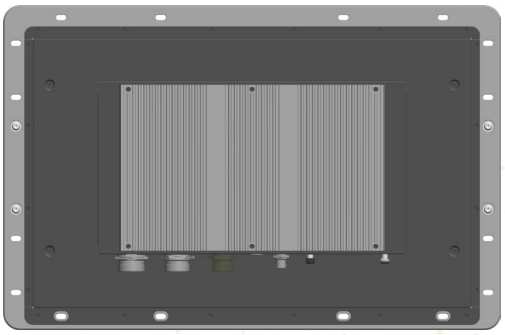












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