# 7" INDUSTRIAL CONTROL PANEL | EDGE PLATFORM (Edge-70)





## FEATURES

- 7" Touchscreen LCD with 1280 x 800 Resolution
  *(Customizable display sizes from 5" to 15" available for OEM/ODM projects)*
- Available as a Standalone Panel or with an Open-Frame Structure
- Quad-core 64-bit Arm® Cortex-A53 processor with integrated GPU
- Built-in NPU delivering up to 1 TOPS for edge AI applications
- Android 13 (Optional: Android 15 or Linux OS)
- IP66-rated water and dust protection
- Supports wet and glove touch operation
- Dual-band Wi-Fi, Bluetooth 5.0, Gigabit Ethernet
- Multiple I/O Options: USB2.0/RS-485/12V DC IN
- Supports AWS Cloud with OTA firmware updates

The Edge-70 is a rugged HMI platform built for OEM and ODM deployment, powered by a quad-core Arm® Cortex-A53 processor with support for Android or Linux OS. Beyond hardware, the Edge-70 serves as a customizable system foundation, enabling customers to rapidly develop application-specific HMI solutions with reduced time to market. The platform features a 7" capacitive multi-touch IPS display with 1280 x 800 resolution, supporting wet and glove operation, and offers scalable display options from 5" to 15". An IP66-rated enclosure ensures durability in harsh operating environments, with mechanical design, mounting method, and I/O configurations fully adaptable to customer requirements. Comprehensive connectivity—including dual-band Wi-Fi, Bluetooth® 5.0, RS-485, and Gigabit Ethernet—supports seamless system integration. As part of our ODM value-added services, cloud enablement, AWS integration, remote device management, OTA updates, mobile applications, and system software customization can be delivered upon request. With flexible open-frame or panel-mount architectures, optional programmable buttons, and end-to-end engineering support—from hardware design to firmware, software, and cloud services—the Edge-70 is positioned as a complete platform + services solution for industrial automation, smart equipment, IoT systems, vehicle HMIs, and food equipment OEMs.

## SPECIFICATIONS

### RUGGEDNESS

| | |
|---|---|
| **IP Rating** | IP66 Water & Dust Protection |

### SYSTEM

| | |
|---|---|
| **Processor** | Quad-core 64-bit Arm® Cortex-A53 CPU |
| **GPU** | Integrated Arm® Mali GPU |
| **NPU** | Integrated NPU, up to 1 TOPS |
| **Memory** | 4GB LPDDR4 (Optional: 8GB) |
| **Storage** | 16GB eMMC<br>Optional: 32GB/64GB/128GB |
| **OS** | Android 13 (Optional: Android 15 or Linux OS) |

### DISPLAY

| | |
|---|---|
| **Screen Size** | 7'' IPS LCD |
| **Resolution** | 1280 x 800 |
| **Brightness** | 350 nits, Optional: up to 1000 nits |
| **Touch Screen** | Capacitive 5-point multi-touch,<br>supports wet and glove operation |

### COMMUNICATIONS

| | |
|---|---|
| **Wi-Fi** | 802.11 a/b/g/n/ac, (2.4GHz / 5GHz) |
| **Bluetooth** | Bluetooth 5.0 |
| **Ethernet** | 10/100/1000 Mbps Ethernet |
| **Zigbee** | Optional |

### I/O & SENSOR

| | |
|---|---|
| **Sensor (Options)** | Temperature and Ambient Light Sensor |
| **I/O Port Options (Support up to 5 configurable ports)** | 1 x USB 2.0<br>1 x RS-485<br>1 x RS-232<br>1 x 12V DC IN<br>1 x LAN (Ethernet) |
| **Button** | 1 x Power Button |

### MECHANICAL

| | |
|---|---|
| **Dimensions** | 184.0 x 119.5 x 14.0mm |
| **Mounting Flexibility** | Open-Frame Mount or Panel Mount |

### ENVIRONMENTAL

| | |
|---|---|
| **Temperature:** | |
| **- Operation** | 0°C to 50°C |
| **- Storage** | -20°C to 65°C |
| **Humidity** | 0% to 100% Non-condensing |

### REGULATORY

| | |
|---|---|
| **Certifications & Regulatory Compliance** | Certification support is available on a project basis. Industrial, medical, and regional regulatory standards can be supported depending on system configuration and your requirements. |


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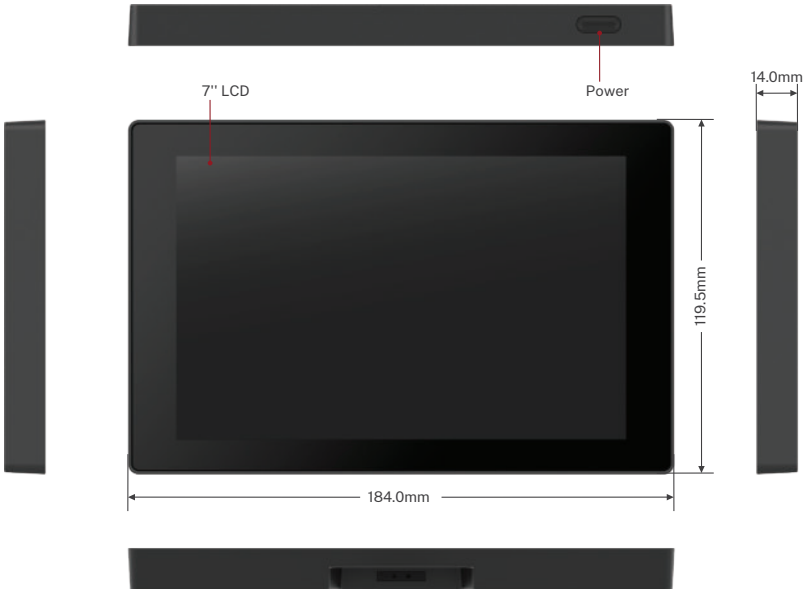
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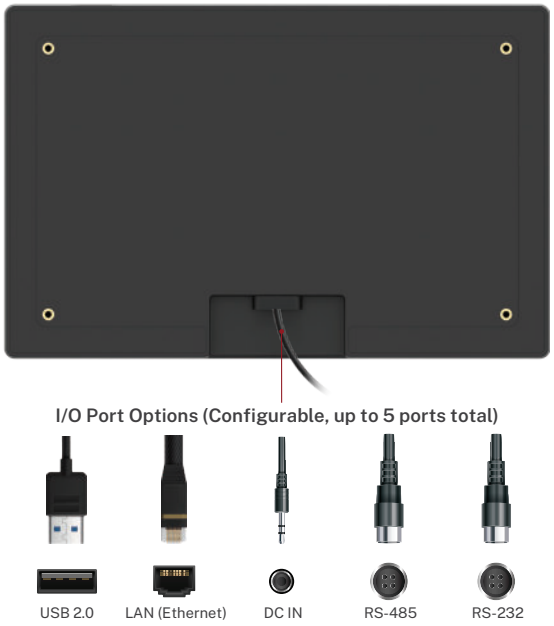
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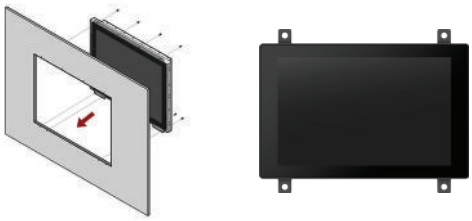
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## DIMENSIONS AND SYSTEM LAYOUT

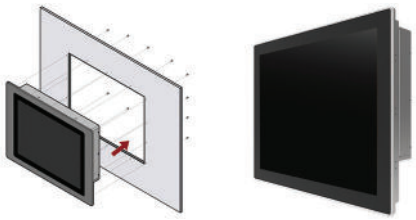



## DESIGN OPTIONS

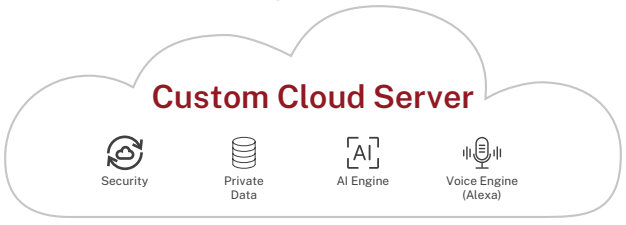


Open-Frame Mount



Panel Mount

## OPTIONAL E-LINK SOFTWARE (Intelligent Device Control)






### Device-Link Software

(Firmware SDK Enabling Device Connectivity to Cloud Servers)




### Mobile-Link Software

(Optional End-User Smartphone App)



### Admin-Link Software

(Business Remote Management Tool)


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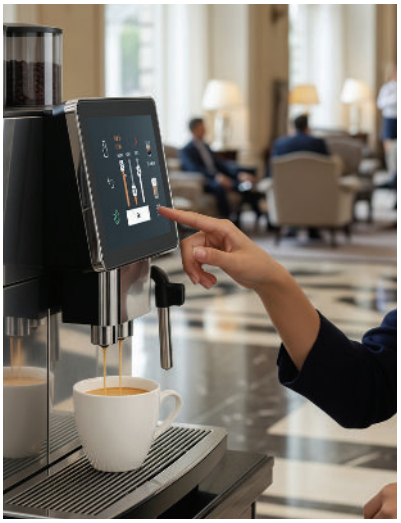
## MARKET & APPLICATIONS

| | |
|---|---|
| **Industrial Automation** | • Production line control panels<br>• Factory machine interfaces<br>• Packaging system monitors |
| **Food & Beverage** | • Soft serve and ice cream machines<br>• Coffee brewers<br>• Frozen beverage dispensers<br>• Food prep stations |
| **Medical** | • Medical carts<br>• Bedside terminals<br>• Diagnostic devices (ultrasound, imaging)<br>• Lab analyzers |
| **Retail / Kiosk** | • Point-of-sale systems (POS)<br>• Self-service checkout<br>• Ticketing machines |
| **Transportation** | • Fleet tracking terminals<br>• Public transit control panels<br>• Marine navigation displays<br>• RV and motorhome central control hubs<br>(lighting, HVAC, power management, entertainment) |
| **Agriculture** | • Tractor or combine harvesters HMI<br>• Smart irrigation control<br>• Feed system monitors |
| **Building Automation** | • Smart thermostats<br>• Room access panels<br>• Energy management dashboards |
| **Energy** | • EV charger user panels<br>• Solar inverter monitor<br>• Power station controls |
| **Vending** | • Smart vending machines<br>• Customized vending solutions with touch interface |
| **Fitness** | • Treadmills and elliptical displays<br>• Interactive workout stations |
| **Gaming** | • Slot machine interfaces<br>• Amusement park ride controls |
| **Defense** | • Mobile command panels<br>• Field-deployable communication terminals |
| **Laboratory** | • Scientific equipment touch controls<br>• Automated chemical analyzers |










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