

Embedded Industrial Panel PC (Standard Display)

## EPC-S1022C

Intel® Core™ i3-1215U | Intel® Core™ i5-1235U | Intel® Core™ i7-1255U

A 10-inch 12th Gen industrial touch computing platform for edge computing and smart manufacturing — FrontOps™ > Panel Platform > EPC-S



BlockCore™  
SafeCore™  
P-CAP Touch  
Smart Thermal  
9~36V DC Wide  
Dual LAN  
Wi-Fi / Bluetooth  
USB 3.0 / 2.0  
HDMI / VGA  
RS-232 / RS-485  
TPM 2.0  
IP65 Front

### Product Overview

The EPC-S1022C industrial touch all-in-one computer is designed for unattended industrial field applications. It features a 10-inch XGA touchscreen with IP65 front panel protection. Utilizing the EPC-102A modular architecture, it is powered by 12th Gen Intel® Core™ i3/i5/i7 processors, supports dual Gigabit Ethernet and rich industrial I/O interfaces, and accepts 9–36V wide-range DC power input. The built-in 3000mAh battery provides 30–60 minutes of operation during power outages, and optional RAID-1 storage redundancy ensures critical tasks remain uninterrupted. Ideal for industrial control, data acquisition, SCADA/HMI and edge AI scenarios.

### Certifications

CCC • CE • FCC • RoHS • ISO 9001:2015

### Key Features

- **Display:** 10-inch 4:3 industrial-grade XGA TFT LED LCD, resolution 1024x768
- **Touch:** Projected capacitive P-CAP 10-point touch, supports glove operation, front panel IP65
- **Core:** 12th Gen Intel® Core™ i3 / i5 / i7 — three performance configurations balancing power and efficiency
- **Network:** Dual Intel I210 controllers, compatible with industrial cameras, supports PTP clock synchronization, low latency for stable transmission
- **Expansion:** 1x Mini PCIe slot for Wi-Fi / Bluetooth / 4G / 5G communication modules (optional)
- **Technology:** BlockCore™ modular design for scalability and high maintainability
- **Reliability:** Intelligent thermal control; SafeCore™ technology prevents power-off damage; built-in 3000mAh lithium battery (30–60 min hold-up); optional RAID-1 storage redundancy
- **Construction:** 6061 high-strength aluminum alloy + sheet-metal chassis, industrial-grade rugged enclosure, IP65 front panel

## 02 Product Images



Front / Perspective view



I/O Interface layout

## 03 Technical Specifications — Touch & Display

Parameter	Specification
Display Size	10" (4:3)
Display Type	XGA TFT LED LCD
Resolution	1024 x 768
Color Depth	16.2M
Brightness	350 cd/m <sup>2</sup>
Contrast Ratio	500:1
Backlight Life	50,000 hours
Touch Method	Projected capacitive (P-CAP), 10-point
Touch Protection	IP65 (front panel)

## 04 Core Hardware

Parameter	i3-1215U	i5-1235U	i7-1255U
Processor	i3-1215U	i5-1235U	i7-1255U
Cores	6 (2P+4E)	10 (2P+8E)	10 (2P+8E)
Threads	8	12	12
Frequency	1.2~4.4 GHz	1.3~4.4 GHz	1.7~4.7 GHz
Cache (L3)	10 MB	12 MB	12 MB
TDP	15 W	15 W	15 W
Graphics	Intel UHD (64 EU)	Intel Iris Xe (80 EU)	Intel Iris Xe (96 EU)
Memory	8–32 GB DDR5 (shared across all SKUs)		
Storage	2x M.2 2280 PCIe NVMe SSD (RAID-1 optional)		

### I/O Interfaces

Interface	Quantity / Type
USB 2.0	2
USB 3.0	4
RS-232	2
RS-485	1
VGA	1
HDMI	1
Gigabit Ethernet	2 x Intel I210
Audio	3.5 mm TRRS
Wi-Fi (Optional)	Dual-band 2.4G / 5G wireless card
4G / 5G (Optional)	Mini PCIe module slot

### Power Input

Parameter	Specification
Power Connector	1x 3-pin pluggable terminal, 9–36 V DC wide-range input
ATX Switch	1x ATX power switch
Startup Mode	AT / ATX mode switch (built-in)
Backup Battery	Built-in 3000 mAh Li-ion · 30–60 min hold-up · Auto Shutdown 15 / 30 / 50 min (SafeCore™)

## Product Attributes

Parameter	Specification
Product Dimensions	262.2 (L) × 209.4 (W) × 70.6 (H) mm
Mounting Dimensions	241.5 (L) × 186.0 (W) mm (panel cutout)
Product Weight	2.9 kg net
Chassis Material	6061 high-strength aluminum alloy
Mechanical Structure	Aluminum extrusion + sheet metal
Mounting Method	Panel mount / VESA 75×75 wall mount
Reset Switch	1× reset switch
TPM	TPM 2.0
Watchdog	Hardware watchdog supported
MTBF	60,000 hours

## Operating Environment

Parameter	Specification
Operating Temperature	0 ~ 60 °C (wide-temp. -40 ~ 80 °C optional)
Storage Temperature	-10 ~ 70 °C (wide-temp. -40 ~ 80 °C optional)
Relative Humidity	10% ~ 90%, non-condensing
EMC	CE, FCC (EN 55032 & EN 55035)
EMC Harmonics	EN IEC 61000-3-2

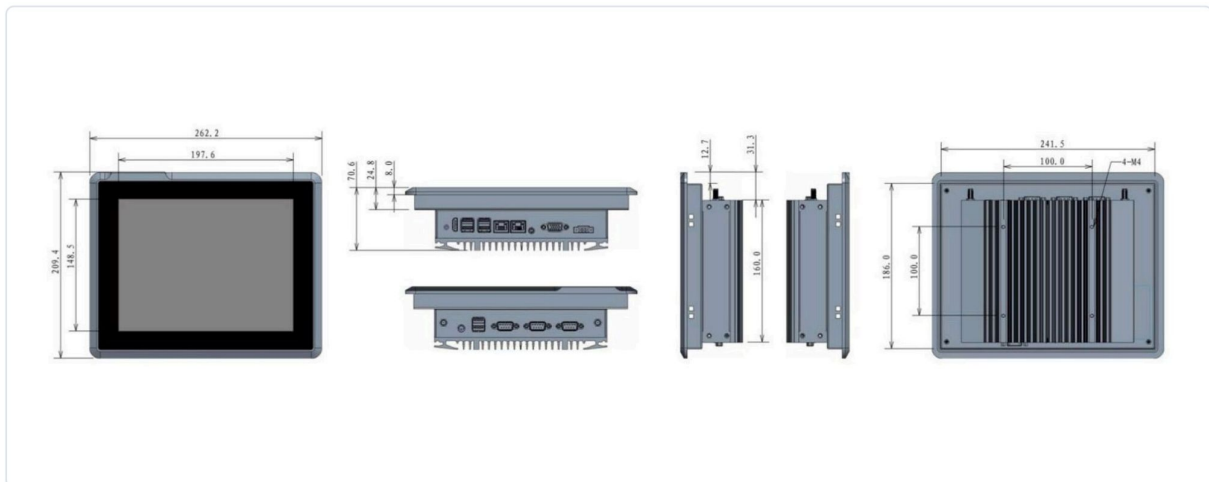
## Operating System

Parameter	Specification
Windows	Windows 10 LTSC / Windows 11
Linux	Ubuntu 16.04 / 18.04 / 20.04 / 22.04

## Certifications & Compliance

Parameter	Specification
Factory Certification	ISO 9001:2015
BIOS Customization	BIOS / Boot Logo / OEM customization available

## 05 Mechanical Dimensions



Outline: 262.2 × 209.4 × 70.6 mm • Cutout: 241.5 × 186.0 mm

## 06 Applications



Industrial Equipment Control



Data Acquisition



Transportation



Energy

## 07 Ordering Information

NO.	Model	Processor	Memory	Storage
1	EPC-S1022C	Intel® Core™ i3-1215U, 10" P-CAP	8 GB DDR5	SSD 256 GB
2	EPC-S1022C	Intel® Core™ i5-1235U, 10" P-CAP	8 GB DDR5	SSD 256 GB
3	EPC-S1022C	Intel® Core™ i7-1255U, 10" P-CAP	8 GB DDR5	SSD 256 GB

Custom configurations (RAM up to 32 GB DDR5, dual NVMe RAID-1, Wi-Fi / 4G / 5G modules, wide-temp variant) are available on request.

## Sales & Technical Support — Thailand

<b>Company</b>	บริษัท อีเอ็นที กรุ๊ป จำกัด / ENT Group Co., Ltd.
<b>Address</b>	70/5 หมู่ 4 เมโทรบิสทาวน์ ช้างวัฒนะ 2 ตำบลคลองพระอุดม อำเภอปากเกร็ด นนทบุรี 11120
<b>Tel / Fax</b>	02-045-6104 / Fax: 02-045-6105
<b>Sales Email</b>	Sales@entgroup.co.th
<b>LINE Official</b>	@entgroup
<b>Website</b>	www.entgroup.co.th • https://entgroup.co.th/epc-series
<b>Tax ID</b>	0135558013167

© ENT Group Co., Ltd. — Authorized distributor in Thailand. Specifications subject to change without notice. All trademarks are property of their respective owners.