

- Intel® Celeron® Processor J1900
- Intel® Core™ 10th Processor 11
- Intel® Celeron® Processor J6412
- Intel® Core™ 12th Processor



Introduction

The CTN-W21X2B is a rugged industrial PC specially built for humid environments like food processing offices. It features downward-facing I/O ports with waterproof plastic connectors and includes matching male plugs to prevent rust. Powered by optional 12th Gen Intel® Core™ i5 processors, it supports multi-platform deployment and ensures stable, long-term operation in challenging conditions.



- LEGO MODE with Customizable Function Cards
- i-Door Technology for Efficient, Tailored
- Multi-platform, Multi-tier CPU options
- Board-to-board Design for Stable Performance

Technical Specifications

CPU	Celeron J1900	Celeron J6412	i3-10110U	i5-10210U	i7-10510U	i3-1215U	i5-1235U	i7-1250U
Cores	4	4	2	4	4	6	10	10
Threads	4	4	4	8	8	8	12	12
Frequency	2.0-2.4	2.0-2.6	2.1-4.1	1.6-4.2	1.8-4.9	1.2-4.4	1.3-4.4	1.1-4.7
Cache	2MB	1.5MB	4MB	6MB	8MB	10MB	12MB	12MB
TDP	10W	10W	15W	15W	15W	15W	15W	9W
Graphics	HD	UHD	UHD	UHD	UHD	UHD Graphics	Iris Xe	Iris Xe



► Memory & Storage

Memory: 4-8GB DDR3L / 4-32GB DDR4 / 4-32GB DDR5

Storage: 1 x mSATA SSD / 1 x mSATA + 1 x M.2 SSD / 1 x M.2 SSD

► Power Supply

DC Input: 1 × 3-pin Pluggable Terminal Block for 12V DC

Power Range: 9-36V DC Optional

Power Button: 1x ATX Power On/Off Button

Bootling: 1x AT/ATX Mode Switch (Internal settings)

► Wireless Communication

Wi-Fi: Intel N6235 300Mbps, 802.11a/b/g/n, 2.4G / 5G

Wireless Network: 4G LTE Full Netcom Module

► I / O Ports

CPU	Celeron J1900	Celeron J6412	i3-10110U	i5-10210U	i7-10510U	i3-1215U	i5-1235U	i7-1250U
USB 2.0/ Type A	/	/	/	/	/	/	/	/
USB 3.0/ Type A	3	3	3	3	3	3	3	3
RS232/ DB9	/	/	/	/	/	/	/	/
RS485/ DB9	/	/	/	/	/	/	/	/
VGA	/	/	/	/	/	/	/	/
HDMI	1	1	1	1	1	1	1	1
Ethernet	1 x Intel I210	1 x Intel I210	1 x Intel I210	1 x Intel I210	1 x Intel I210	1 x Intel I210	1 x Intel I210	1 x Intel I210
Audio	/	/	/	/	/	/	/	/



► Display

LCD Size	21.5 inch Panel Size
Resolution	1920×1080 16:9
Brightnesss (cd/m2)	300
Contrast Ratio	500 : 1
Backlight LED Life Time	50,000 hrs (LED Backlight)

► Touch Panel

Touchscreen Type	Projected Capacitive Touch
	Resistive 5-wire (Optional)

► Mechanical

Dimension	534.6(W)×326.1(D)×88.1(H)mm
Cutout Size	516.6×308.1mm
Weight	8 KG N.W.
Material	6063 High-Strength Aluminum Alloy
Mechanical Construction	Aluminum Extrusion + Sheet Metal Structure
Mount	Wall Mount / VESA Mount
Clear CMOS Switch	1x Clear CMOS Switch

► Environmental	
Specification	Details
Protection Front Panel	IP65 Compliant
Operating Temperature	0~50°C (-40~70°C Optional)
Storage Temperature	-10~60°C
Relative Humidity	10%~90%, Non-condensing
EMC	CE, FCC (According to EN 55032 & EN 55035) EN IEC 61000-3-2
Factory	ISO9001: 2015
ODM	BIOS / Boot on LOGO / OEM
MTBF	60,000 Hours
► Operating System	
OS Category	Supported Versions
Windows	Windows 10 / Windows 11
	Note: Celeron J1900 can support Windows 7
Linux	Ubuntu 16.04 / 18.04 / 20.04 / 22.04
► Warranty	1 Year (carry-in)
Warranty Option	ลูกค้าสามารถซื้อประกันเพิ่มได้สูงสุด 3 ปี (Optional)



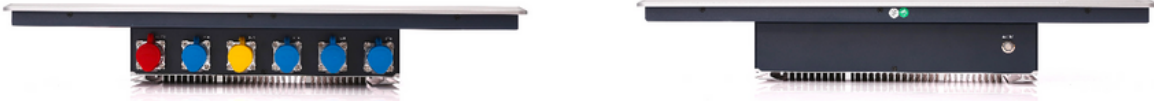
► Product Selection

NO.	Model	Describe Information	Standard Memory	Standard Storage
1	CTN-W2162B	Intel® Celeron® Processor J1900 Processor	4GB	SSD 128GB
2	CTN-W2172B	Intel® Celeron® Processor J6412 Processor	8GB	SSD 256GB
3	CTN-W2192B	Intel® Core™ i3-10110U Processor	8GB	SSD 256GB
4	CTN-W2192B	Intel® Core™ i5-10210U Processor	8GB	SSD 256GB
5	CTN-W2192B	Intel® Core™ i7-10510U Processor	8GB	SSD 256GB
6	CTN-W2122B	Intel® Core™ i3-1215U Processor	8GB	SSD 256GB
7	CTN-W2122B	Intel® Core™ i5-1235U Processor	8GB	SSD 256GB
8	CTN-W2122B	Intel® Core™ i7-1250U Processor	8GB	SSD 256GB

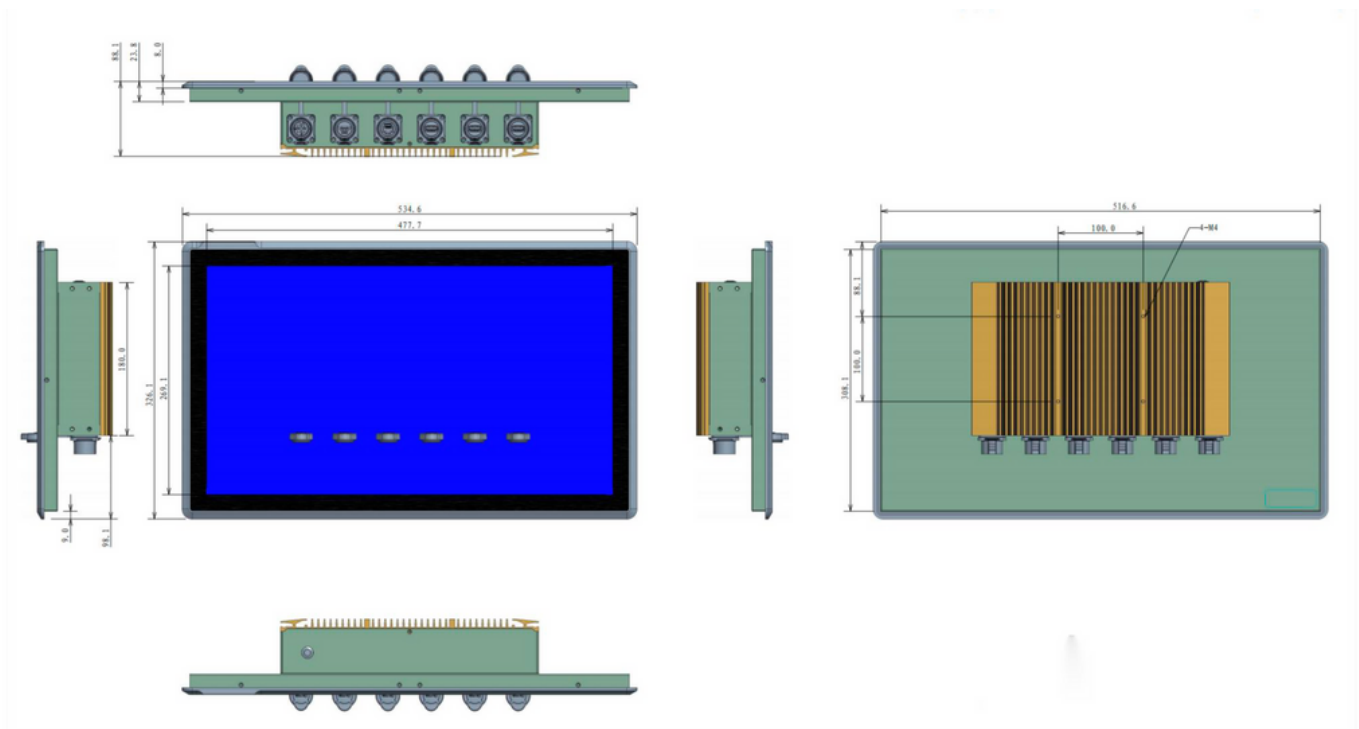
► I/O Port



► Product Images



► Product Sizes



► Applications

The EPC series is designed for various industrial applications including:

- | | |
|---------------------------------|-----------------------------------|
| • Industrial Automation Systems | • Digital Signage Solutions |
| • Manufacturing Process Control | • Smart Factory Implementation |
| • Building Management Systems | • Quality Control Systems |
| • Transportation and Logistics | • Data Acquisition and Monitoring |