

ASSURED
SYSTEMS
ECS-APCL Intel Celeron
J3455 Processor Pico-ITX
Fanless Box PC



ASSURED SYSTEMS ECS-APCL Intel Celeron J3455 Processor Pico-ITX Fanless Box PC Owner's Manual

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ASSURED SYSTEMS ECS-APCL Intel Celeron J3455 Processor Pico-ITX Fanless Box PC



Specifications

- **Memory:** 1 x 204-pin DDR3L1600/1333MHz SO-DIMM socket, supports up to 8GB (4GB installed as default)
- **Storage:** 1 x M.2 Type B 3042/2242/2260 supports SSD, 64GB installed as default
- **Wireless:** 1 x M.2 Type A 2230 supports WiFi module
- **USB Ports:** 2 x USB 3.0, 2 x USB 2.0
- **Display Outputs:** 1 x DP++, 1 x HDMI (Dual Display)
- **Ethernet:** 2 x Intel i211AT Gigabit Ethernet
- **Power Supply:** 60W Adapter (DC in 12V @ 5A)

Product Usage Instructions

Memory Installation:

1. Locate the 204-pin DDR3L1600/1333MHz SO-DIMM socket on the device.
2. Carefully insert the memory module into the socket, ensuring proper alignment.
3. If upgrading, replace the existing memory module with the new one.

Storage Upgrade:

1. For additional storage capacity, consider upgrading the M.2 Type B slot with a compatible SSD.
2. Ensure the device is powered off before inserting or removing the SSD.
3. Follow manufacturer guidelines for SSD installation and initialization.

Connecting to Networks:

1. Connect Ethernet cables to the two Intel i211AT Gigabit Ethernet ports for network access
2. If using wireless connectivity, install a WiFi module in the designated M.2 Type A slot.

Power Supply:

1. Use the provided 60W Adapter with a DC input of 12V @ 5A to power the device.
2. Ensure a stable power source and proper ventilation for optimal performance.

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Intel® Celeron® J3455 Processor Pico-ITX Fanless

Box PC

- 1 x 204-pin DDR3L1600/1333MHz SO-DIMM socket, supports up to 8GB, 4GB installed as default.
- 2 x USB 3.0, 2 x USB 2.0
- 1 x DP++, 1 x HDMI (Dual Display)
- 1 x M.2 Type B 3042/2242/2260 supports SSD, 64GB installed as default.
- 1 x M.2 Type A 2230 supports WiFi module
- 2 x Intel i211AT Gigabit Ethernet
- 2 x SMA connector (optional)
- 60W Adapter (DC in 12V@5A)

Spec

-System Information-	
Processor	Intel® Celeron® J3455 Processor

System Memory	1 x 204-pin DDR3L 1600MHz SO-DIMM, supports up to 8 GB, 4GB installed as default.
Watchdog Timer	H/W Reset, 1sec. ~ 65535min. and 1sec. or 1min./step
H/W Status Monitor	Monitoring CPU & System Temperature and Voltage
SBC	EPX-APLP
Expansion	
Expansion	1 x M.2 Type A 2230 supports WiFi module
Storage	
Storage	1 x M.2 Type B 3042/2242/2260 supports SSD, 64GB installed as default.
I/O	
USB Port	2 x USB 3.0 2 x USB 2.0
COM Port	1 x RS-232
Other	1 x Power on/off Button w/ LED 2 x SMA Connector (Optional)
Display	
Graphic Chipset	Intel® Celeron® SoC Integrated Graphics
Spec. & Resolution	DP++: 4096 x 2160 @ 60Hz HDMI: 3840 x 2160 @ 30Hz, 2560 x 1600 @ 30Hz
Multiple Display	Dual Display
Audio	
Audio Codec	Realtek ALC897
Audio Interface	Line-Out
Ethernet	
LAN Chipset	2 x Intel i211AT GbE controller
Ethernet Interface	10/100/1000 Base-Tx GbE compatible
LAN Port	2 x RJ45
Power Requirement	
DC Input	+12V
DC Input Connector	DC Jack (lockable)
Power Mode	ATX
Adapter	Input: 100 ~ 240Vac/ 50 ~ 60Hz Output: 60W Adapter (12V @ 5A)
Mechanical & Environmental	

Operating Temperature	-10°C ~ 50°C (32°F ~ 122°F) (w/SSD), ambient w/0.5 m/s air flow -10°C ~ 40°C (32°F ~ 104°F) (w/SSD), ambient w/0.2 m/s air flow
Storage Temperature	-20°C ~ 75°C (-4°F ~ 167°F)
Operating Humidity	40°C @ 95% Relative Humidity, Non-condensing
Dimension (W x L x H)	120.6 x 95.2 x 49.8 mm
Weight	1Kg
Mounting Kit	L-bracket (Optional)
Construction	Aluminum + Metal
Software Support	
OS Information	Win 10, Linux
Ordering Information	
Ordering Information	ECS-APCL (ECS-APCL-3455-B1R) Intel® Celeron® J3455 Processor Pico-ITX Fanless Box PC

Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking, and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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Frequently Asked Questions

- **Q: Can I upgrade the memory beyond 8GB?**

A: The device supports up to 8GB of memory in the specified configuration and does not support further expansion.

- **Q: How do I install a WiFi module?**

A: To install a WiFi module, locate the M.2 Type A 2230 slot on the device and carefully insert the module following manufacturer instructions.

- **Q: What operating systems are supported?**

A: The device supports Windows 10 and Linux operating systems for compatibility.

Documents / Resources

	ASSURED SYSTEMS ECS-APCL Intel Celeron J3455 Processor Pico-ITX Fanless Box PC [pdf] Owner's Manual ECS-APCL Intel Celeron J3455 Processor Pico-ITX Fanless Box PC, ECS-APCL, Intel Celeron J3455 Processor Pico-ITX Fanless Box PC, Celeron J3455 Processor Pico-ITX Fanless Box PC , J3455 Processor Pico-ITX Fanless Box PC, Processor Pico-ITX Fanless Box PC, Pico-ITX Fanless Box PC, Fanless Box PC, Box PC, PC
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References

- [🔗 Industrial Embedded Computers and Displays - Assured Systems](#)
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