

If you can not view this email, please click [here](#)

eNews - May 2021



The Ultimate Guide to GPU Computers

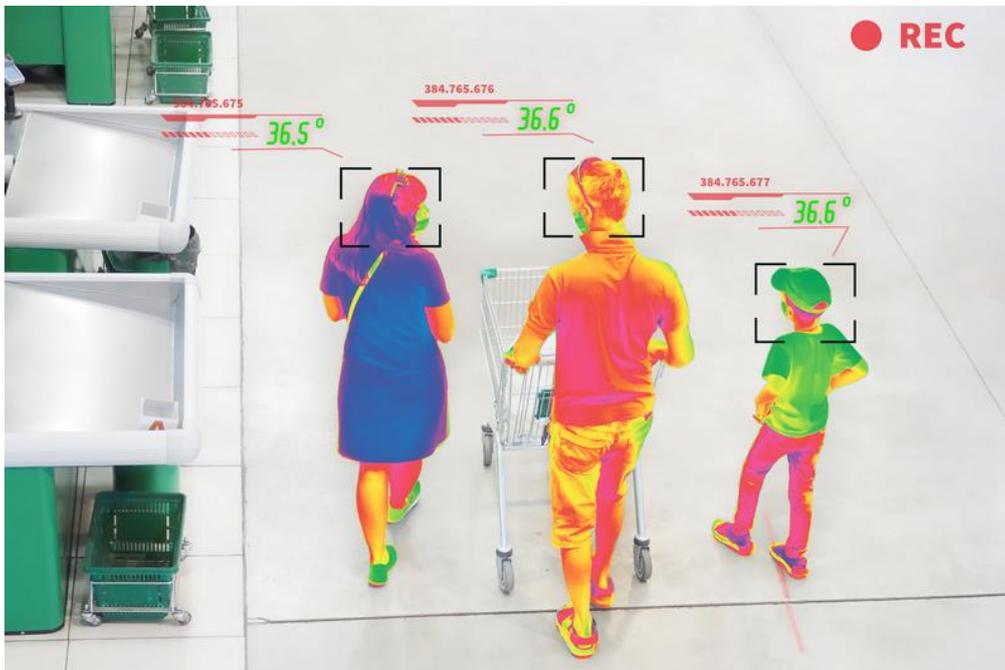
Table of Contents

- Definition: What is a GPU?
- Brief history of GPU computing
- What does the GPU do?
- The GPU's role in visual processing
- What is an industrial GPU computer?
- Blurring lines: servers, rugged and embedded GPU computers
- What tasks can industrial GPU computers perform?
- Cincoze support and services

— by [Circuit Cellular](#)

The GPU has been part of computing ever since the first pixel hit a display. Still, its role has changed dramatically from its original function to embedded GPUs, lifelike 3D gaming and now general-purpose GPU computing.

This article takes a deep dive into this critical hardware component that powers AI, computer vision, and a whole slew of futuristic computer goodness. We will attempt to sum up what the GPU is, why it's important, how they apply to industrial computers, what it's used for, why you might need one, and the options available when picking them.



During the COVID 19 outbreak, by deploying automated thermal imaging systems powered by Cincoze [GM-1000](#), it successfully performed mask detection, face recognition, image search, and footprint tracking through machine vision, helping streamline the process and lowering labor costs. Check out the [full story](#).

Definition: What is a GPU?

The graphics processing unit (GPU) is the hardware component that takes instructions for visual display and puts the pixels on the screen where they are meant to go.

According to Intel, GPUs are designed for parallel processing and are, “used in a wide range of applications, including graphics and video rendering. Although they’re best known for their capabilities in gaming, GPUs are becoming more popular for use in creative production and artificial intelligence (AI).”

That last part is important because the modern general-purpose GPU is no longer limited to just displaying images on the screen. It has become the powerhouse behind the processing of complex machine inputs that are possible but just too slow for the CPU. So how did this come about?

[Read full article on Circuit Cellar »](#)

Stay Connected with Cincoze



[Facebook](#)



[LinkedIn](#)



[YouTube](#)



[Twitter](#)



[Website](#)