

# LANDI Global Brings Performance to Windows 11 POS Terminals

**Powered by Intel® Core™ processors, LANDI Global's Cx20 Windows POS enables medium-sized retailers to run demanding applications seamlessly without compromising customer experience**



Retailers are under growing pressure to deliver fast, seamless, and personalized checkout experiences. Traditional point of sale (POS) terminals were designed for basic transaction processing, with limited memory and modest CPU performance.

Today, however, retailers are adopting more sophisticated workflows at the checkout counter, requiring POS hardware capable of running complex applications without latency. As software stacks expand to include improved user interfaces, multi-tasking, and deeper integrations, legacy systems struggle to keep up, slowing down transactions and reducing overall store efficiency.

Modern POS terminals feature significantly more processing power and RAM to support advanced, retail-ready software. One of the biggest drivers of this hardware shift is the migration of operational functions directly onto the POS.

For example, many retailers want real-time inventory management built into the terminal itself, ensuring staff can check stock availability, process transfers, or initiate purchase orders during customer interaction. Running these capabilities locally demands greater compute resources, especially as product catalogs grow and database queries become more complex.

Beyond inventory, new software features continue to push the POS from a simple cash register to a full retail operating platform. Terminals increasingly handle integrated loyalty programs, AI-powered product recommendations, digital receipts, customer profiles, and even lightweight analytics dashboards.

Each of these applications requires more memory, more simultaneous processing threads, and more robust graphics performance for modern touchscreen interfaces. Payment security is also evolving, with next-generation encryption, tokenization, and fraud-detection algorithms operating directly on the device, further raising performance requirements.

For POS system developers, this shift represents a substantial opportunity—but also a mandate. As retailers modernize, they expect their POS applications to be responsive, reliable, and capable of consolidating multiple store functions into a single terminal.

Leveraging the latest hardware capabilities enables developers to deliver richer features without compromising speed or user experience. In effect, the POS terminal is becoming the store's most versatile digital asset and updating it is no longer optional for retailers who want to stay competitive.

But even as retailers modernize they want to continue to re-use the software and peripherals they are using with their current system. This reduces the cost of the upgrade but also provides a familiar interface for staff. LANDI Global, an Intel® Solution Builders Partner, has launched its Cx20 to provide retailers using the Windows OS a new solution that can run the latest software.

## Cx20: Sleek Design with Compute Performance

The LANDI Cx20 is a Windows Desktop-based POS terminal that is designed to bring advanced performance and features to retailers. These include convenience stores, restaurants and hospitality venues.

The desktop system brings a sleek, all-in-one design with a stylized triangular base that delivers stability and a streamlined profile. The advanced look and feel of the system are enhanced by a body thickness of 4mm and a screen thickness of 8mm.

The dual-screen system features an optional 10.1" touch screen customer display with 1,280 x 800 px resolution, and a 15.6" employee-facing multi-touch screen that features 1,920 x 1,080 px resolution. The Cx20 features a memory capacity of 8GB + 256GB providing the RAM needed to multitask and meet various operational needs and, at the same time, maintaining a seamless experience for complex tasks.

The Windows 11 IoT-based Cx20 is the perfect upgrade for customers who need to upgrade due to the end of life of Windows 10. Many older systems are not able to support the upgraded security features and the CPU performance needed to move to Windows 11. The Cx20 is an ideal upgrade and integrates seamlessly with existing Windows applications and back-end systems, ensuring minimal disruption and maximum compatibility.

## High-Speed, Seamless Connectivity

The Cx20 offers seamless connectivity options including support for Wi-Fi 6e (5GHz and 2.4 GHz), 5G, and 1G Ethernet.

This flexibility ensures flexible connectivity with back up options to maintain uninterrupted business operations. The Cx20 is equipped with an integrated 80mm thermal printer featuring auto-cutter technology, ensuring efficient printing, and LANDI's patented auto-recovery technology that automatically resolves paper jams for uninterrupted service.

The Cx20 works with LANDI Connect, a software-as-a-service platform that enables efficient management of all devices, applications and data. LANDI Connect adds security features as well as remote software updates for systems.

## Modular Architecture for Easy Customization and Serviceability

The Cx20 adopts a modular hardware architecture, enabling retailers and integrators to easily configure or upgrade components such as CFD screen, memory, printer, MSR module and camera module. This modular approach reduces maintenance time, lowers upgrade costs, and provides flexibility for different deployment scenarios.

## Application Performance Powered by Intel

The LANDI Cx20 is available with multiple CPU options, either the eight-core 12th Gen Intel® Core™ i3-1215U processor or the ten-core 12th Gen Intel® Core™ i5-1245U processor.

Intel® Core™ processors integrate multi-core architectures with each core operating at up to 4.4GHz, enabling simultaneous execution of multiple tasks, which significantly enhances performance. The processor cores are either Performance-cores, designed for compute-heavy tasks, or



**Figure 1.** Customer and employee views of the LANDI Cx20 point-of-sale system.

Efficient-cores, which balance compute power with power efficiency.

### Additional CPU Option — Intel® Processor N97

The LANDI Cx20 is also available with the Intel® Processor N97, which provides an ideal balance between performance and affordability for value-driven deployments, while maintaining compatibility with Windows 11.

### Conclusion

Retailers face rising expectations around speed, personalization, and operational efficiency at the point of sale. Meeting those expectations requires systems that go beyond basic payment processing. Modern POS terminals must act as fully capable computing platforms. This includes running real-time inventory workflows, supporting rich customer-facing experiences, integrating loyalty and marketing tools, and executing increasingly sophisticated security processes.

Upgrading to next-generation hardware is a prerequisite for maintaining competitiveness and delivering the frictionless checkout experiences shoppers now expect. At the same time, most retailers cannot afford to overhaul their entire technology environment. They need systems that pair advanced performance with continuity, allowing them to retain the software, peripherals, and workflows that have been keeping their operations running smoothly.

The LANDI Cx20 was built specifically for these retailers. It combines a sleek, modern design with the processing power of 12th Gen Intel® Core™ processors. The Cx20 provides the compute headroom required for today's multitasking retail applications and tomorrow's innovations.

Its Windows 11 compatibility helps retailers replace end-of-life Windows 10 systems without sacrificing integration with existing software or back-end platforms. Features like dual high-resolution touchscreens, fast connectivity options, integrated printing, and remote fleet management through LANDI Connect further streamline daily operations.

With the Cx20, medium-sized retailers gain a POS platform engineered for longevity, performance, and seamless transition. The system empowers developers to deliver richer applications and enables businesses to operate more efficiently. In a competitive retail environment defined by rising expectations, the right POS upgrade can become a catalyst for growth and improved customer experience.

### Learn More

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[Intel® Core™ Processor Product Page](#)

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