Vynamic® Smart Vision | N2220

Touchpoint Processing Unit (TPU)

Experience the future of intelligent infrastructure with Edge AI processing. Seamlessly integrating into diverse retail and automation environments, it empowers greater operational efficiency and delivers smarter customer experiences—right at the edge.

Unlock the Power of Real-Time Intelligence with Edge AI. DN's N2220 enables dedicated server deployment for every system, delivering ultra-fast, low-latency inference directly at the data source—ensuring instant insights, enhanced privacy, and unmatched performance. Connected to self-checkout and POS systems, it brings advanced AI capabilities to existing retail infrastructure without disruption.

More Modular

This modular AI compute unit is a powerhouse of advanced processing, boosting neural performance and supporting a wide range of AI use cases without compromising on design, flexibility, or ease of integration.

More Available

Designed for dependable performance, the N2220 compute unit is backed by DN AllConnect Services[SM] for Retail—enabling proactive monitoring, remote issue resolution, and consistent availability across retail environments to ensure a smooth customer experience.

More Open

Fully integrated with DN's advanced software stack, the N2220 features an open design that enables easy software integration and control—supporting flexible, accessible experiences across retail environments.

More Innovative

A future-ready solution, the N2220 compute unit delivers ample processing power—even for the most demanding applications. It's designed to evolve with your needs and ensure a frictionless, enjoyable retail experience for years to come.

Flexible Integration

- A powerful AI computing device
- Extends AI capabilities to existing self-checkout and POS systems

Mounting and Placement

- Flexible Mounting Options: Easily attachable to existing self-checkout or POS systems with service-friendly access
- Modern Design: Seamlessly fits into the DN Series® family aesthetic

AI Compute Unit

- Powered by NVIDIA Jetson™ technology
- Jetson Orin nano SoM - 1024 Cores-GPU, 32 Tensor-Cores
- 8 GB LPDDR5 memory
- 40 TOPS AI performance
- Gigabit Ethernet connectivity

Connectivity

- USB and Ethernet Interfaces: Simplifies integration with DN systems
- Gigabit Ethernet: Ensures high-speed connectivity with the store LAN
- Integrated Ethernet Switch: Enables efficient internal networking
- Power Supply: 12V DC input for reliable operation
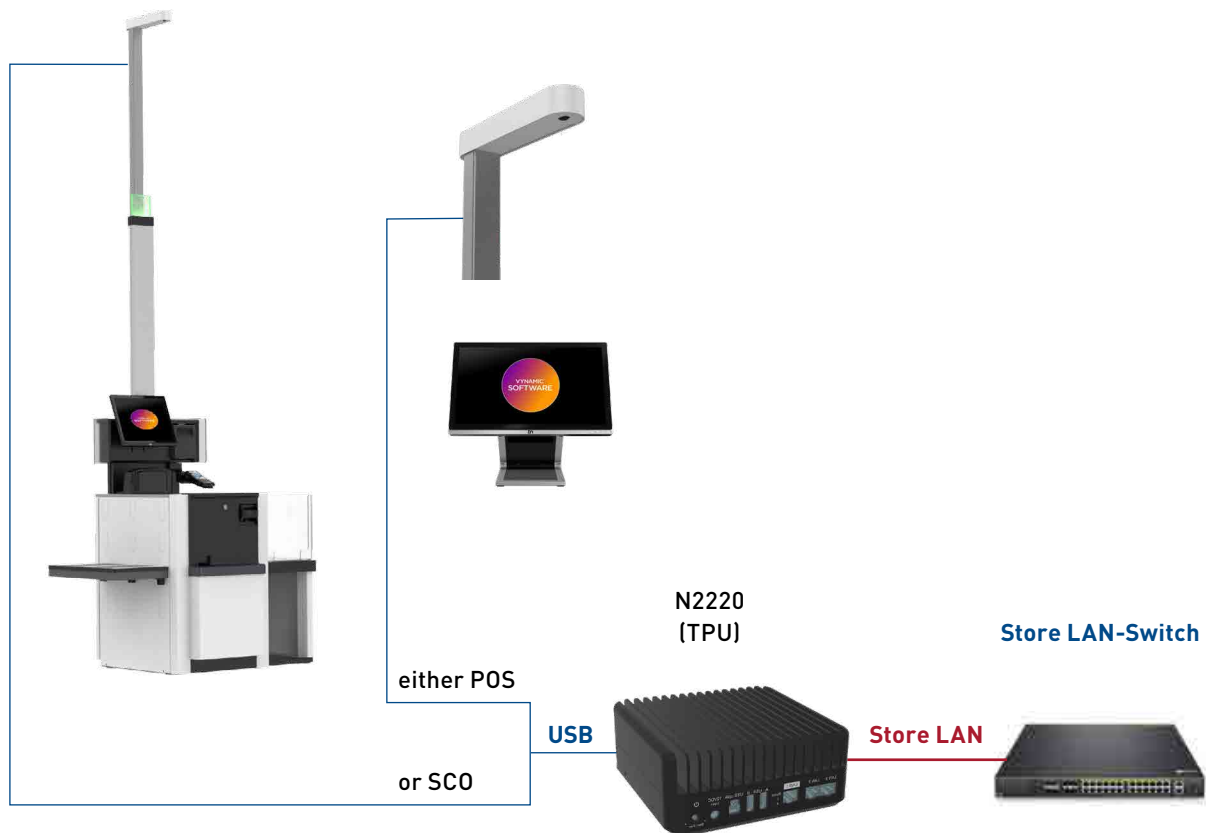
Durability

- Housing: Rugged aluminum enclosure for long-lasting protection
- Passive Cooling: Silent, robust, and low-maintenance operation
- Tamper-Resistant Design: Ideal for public-facing retail environments
- Operating Temperature: 0°C to 50°C (32°F to 122°F)
- Certifications: CE, FCC, RoHS, EN 301 549, Section 508 compliant

HEIGHT: 62 mm 2.44 in

WIDTH: 147 mm 5.79 in

DEPTH: 147 mm 5.79 in

Dimensions (HxWxD)
62 mm x 147 mm x 147 mm
2.44 in x 5.79 in x 5.79 in

Weight:
Approx. 1.2 kg
2.65 lbs

Each self-checkout or POS system is served by a dedicated N2220 unit

N2220 (TPU)

Store LAN-Switch

either POS

or SCO

USB

Store LAN