XGY SI Workstation max

240 TOPS FP8 dense AI platform with 96 GB LPDDR5X memory

At a Glance

XGY SI Workstation max combines a 16-core Arm Cortex-A78AE CPU with a dedicated 240 TOPS FP8 dense NPU and 96 GB of LPDDR5X memory.

Memory bandwidth of 409 GB/s, dual 10GbE networking and an M.2 PCIe 4.0 x4 slot support local AI development and inference evaluation.

The Ubuntu-based platform fits a 160 x 160 x 90 mm desktop enclosure, with an approximate volume of 2.3 L.



Key Features

- **Dedicated AI acceleration**
  240 TOPS NPU rating at FP8 dense for compatible local inference workloads.
- **High-capacity memory**
  96 GB LPDDR5X memory with 409 GB/s memory bandwidth.
- **16-core Arm CPU**
  16 Cortex-A78AE cores operating at 2.4 GHz.
- **High-speed connectivity**
  Dual RJ45 10GbE ports and an M.2 2280 PCIe 4.0 x4 storage slot.
- **Linux development**
  Ubuntu-based platform for application development and integration.
- **Compact enclosure**
  160 x 160 x 90 mm housing; approximately 2.3 L in volume.

Desktop Application



Illustrative local AI workspace. The external monitor connects by HDMI at the rear of the workstation; screen content is shown for context.

Enclosure and Interfaces



Rear: display, network and power connections



Side: enclosure ventilation

Technical Specifications

Specification	Value
CPU / platform	16 x Arm Cortex-A78AE cores at 2.4 GHz.
NPU performance	240 TOPS at FP8 dense.
Memory	96 GB LPDDR5X; 409 GB/s memory bandwidth.
Storage expansion	1 x M.2 2280 slot, PCIe 4.0 x4. Installed storage is specified with the ordered configuration.
Networking	2 x RJ45 10GbE ports.
Display outputs	1 x HDMI 2.0b, 4K at 60 Hz; 1 x HDMI 2.0, 1080p at 60 Hz.
USB connectivity	USB-A and USB-C connectivity. Port speeds and allocation depend on the selected configuration.
Audio / controls	1 x 3.5 mm combo audio jack; front power button; reset hole.
Wireless module	On-board BL-M6652AUE Wi-Fi / Bluetooth module.
Operating system	Linux (Ubuntu).
Power design	Power-supply configuration is specified in the quotation.
Dimensions / volume	160 x 160 x 90 mm; approximately 2.3 L.
Enclosure materials	Space-grey anodized aluminium cover; black matte-textured plastic lower shell; black matte-textured rubber base.

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