Compulab launches Tensor-I22, a configurable 11th Gen. Core™ fanless industrial computer

October 18, 2022, Yoqneam, Israel – Compulab launches Tensor-I22, the second generation in its innovative industrial computer line, Tensor.

Tensor-I22 is based on Intel’s Tiger Lake UP3 platform and is offered with Core i7, Core i5, and Celeron processors. The first Tensor-I22 shipments are scheduled for Dec. 2022.

Full utilization of a great platform

Intel’s Tiger Lake UP3 platform combines a high-performance CPU with a leap forward in GPU performance over previous platforms. With inherent deep learning and AI acceleration capabilities and high-speed PCIe Gen. 4 it enables the Tensor-I22 to be a very capable computer for the contemporary needs of cutting-edge industries.

Tensor-I22 fully utilizes the capability of the platform with a wide set of peripherals that include a comprehensive back interfaces module and customizable additional interfaces.

Ready for AI

Tensor-I22 is offered with an optional pre-installed Hailo-8 AI acceleration module with enhanced heat dissipation. This option allows the Tensor-I22 to become a strong AI edge computer, using a very efficient neural network processor for demanding computer vision missions.

Remarkable features

Tensor-I22 main features:
- Intel 11th gen. Core processor (Tiger Lake UP3) Core i7, Core i5 or Celeron, 15W / 28W TDP
- Fanless design with modular housing (min. 20x20x3.5 cm)
- Operating temperature range up to -40°C to 70°C
- 12V – 56V input voltage
- Optional multiple industrial ports: RS-232, RS-485, CAN bus, GPIOs
- Secure boot and TPM 2.0
- 5 year warranty and 15 years of availability

Specifications

Processor: Intel Core i7-1185G7E / Core i5-1145G7E / Celeron 6305E
Memory: Up to 64GB DDR4 in 2x SO-DIMM up to 3200MT/s
Storage: Up to 3 devices: M.2 NVMe, M.2 SATA, optional 2.5” disk
Display: 4 independent displays, 2x HDMI 1.4b + 2x mini Display Port 1.2
Ethernet: Up to 4 Gigabit Ethernet ports, two of them with possibility of PoE PSE or SFP+
Wireless connectivity: Wi-Fi 6E + Bluetooth 5.2, LTE / 5G modem
USB: 2 USB 3.1 + 2 USB 2.0 as standard, with up to 8 more ports available
Serial / GPIO: Up to 20 optional RS-232 / RS-485 / CAN bus / GPIOs
Audio: Optional analog in/out
Power: 12V – 56V, 5A
TPM: Internal TPM 2.0, optional discreet TPM 2.0
Operation system support: Win 10 IoT enterprise LTSC 2021, Win 11 Pro, Linux Mint, Ubuntu
Operating Temperature: Commercial (0°C to 45°C) up to industrial (-40°C to 70°C)
Size: standard 20cm X 20cm X 3.5 cm or larger
Mounting: VESA, DIN Rail

Availability

Tensor-I22 is available for order online at www.fit-iot.com or by contacting sales@fit-iot.com (+972-4-8290168). First units will be shipped in Dec. 2022.
More information
https://fit-iot.com/web/products/Tensor-I22/
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