NISE 3910E-A Series

Common Specifications

Category	Specification
CPU Support	14th/13th/12th Gen Intel® Core™ i9/i7/i5/i3 embedded processors
Memory	DDR5 4800 SO-DIMM, up to 64GB
Display Output	1 x HDMI®, 1 x DP, 1 x VGA (three independent displays)
Audio	HD Audio Codec, Realtek ALC897
Front I/O	1 x ATX power switch, LED indicators (LAN x4, GPO x1, COM Tx/Rx x4, HDD/SSD x1, Battery low x1), 1 x DP, 2 x antenna hole, 1 x M.2 2242 Key M, 1 x SIM card holder, 4 x USB 2.0 Type-A, 1 x Line out, 1 x Mic in
Rear I/O	1 x HDMI®, 1 x VGA, 6 x USB 3.2 Gen1 Type-A, 4 x 2.5GbE LAN (Intel® I226-IT, WoL & PXE), 2 x Isolated RS-232/422/485, 1 x RS-232, 1 x 3-pin DC input (+12~30V), 1 x 3-pin remote power switch
Internal I/O	8 x GPI, 8 x GPO (TTL 5V), 1 x M.2 Key B 2242/3042/3052, 1 x Mini PCIe (PCIe x1, USB 3.0)
Storage	1 x 2.5” HDD/SSD, 1 x M.2 2242 Key M, 1 x M.2 2242 Key B
Expansion Slots	1 x PCIe x4 (25W max, 169mm), 1 x Mini PCIe (PCIe x1, USB 3.0)
Power Requirements	AT/ATX mode, +12~30V DC input
Dimensions (W×D×H)	215 × 272 × 102 mm
Weight	Net: 5.2kg, Gross: 7.1kg
Construction	Aluminum & metal chassis, fanless
Environment	Operating temp: -20~60°C, Storage temp: -20~80°C, Humidity: 10~95% non-condensing, Shock & vibration protection per IEC standards
Certifications	CE, FCC Class A
OS Support	Windows 11, Windows 10 Enterprise 64-bit
Features	TPM 2.0 onboard, optional LTE/5G via M.2 3052 Key B, mini PCIe for Wi-Fi/3.5G/4G LTE, supports independent displays, fanless design, industrial-grade reliability

Model Comparison

CPU (Intel® Core™)	Cores (P+E)	Base Frequency	Cache	System Capability / Best Use
i9-14700T	8P+12E	1.3 GHz	33 MB	Maximum industrial compute and multi-threaded automation tasks; best for AI/vision or heavy edge computing
i7-14700T	8P+12E	1.3 GHz	33 MB	High-performance automation and multi-display control; handles demanding graphics and process monitoring
i5-14500T	6P+8E	1.7 GHz	24 MB	Balanced general-purpose automation; good for standard IoT, PLC, and moderate graphics loads
i3-14100T	4P+4E	2.7 GHz	12 MB	Entry-level automation and monitoring; ideal for lightweight edge computing or simple control tasks
i9-13900TE	8P+16E	1.0 GHz	36 MB	Energy-efficient high-load tasks; best where continuous operation and power savings matter with heavy workloads
i7-13700TE	8P+8E	1.1 GHz	30 MB	Efficient industrial processing; great for 24/7 operation with moderate graphics or data handling
i5-13500TE	6P+8E	1.3 GHz	24 MB	Mid-level industrial tasks; stable for IoT gateway, sensor aggregation, or remote edge computing
i3-13100TE	4P+4E	2.4 GHz	12 MB	Low-power automation and monitoring; ideal for simple devices or energy-conscious deployments
i9-12900TE	8P+8E	1.1 GHz	30 MB	12th Gen high-performance tasks; industrial workloads with extended temperature tolerance
i7-12700TE	8P+4E	1.4 GHz	25 MB	Efficient 12th Gen system; suitable for moderate automation and graphics control with lower power consumption
i5-12500TE	6P+6E	1.9 GHz	18 MB	Standard industrial operations; reliable for medium IoT workloads and monitoring tasks
i3-12100TE	4P+4E	2.1 GHz	12 MB	Basic monitoring or lightweight control; lowest power usage and cost-effective for simple deployments