

NISE 50 A04 Series



Common Specifications

Category	Specification
Construction	Fanless design; aluminum top cover; metal chassis
Memory	1 × DDR5 4800 SO-DIMM slot
Networking	3 × 2.5GbE LAN: 1 × Intel® I226-IT (TSN), 2 × Intel® I226-V; supports WoL, teaming, PXE, EtherCAT
Display	Minimum 1 × HDMI®
Front I/O	ATX power switch; 2 × USB 3.2; 1 × HDMI®; 1 × DB9 (COM1, RS-232/422/485, auto flow control); 3-pin DC input
Internal Features	1 × nano-SIM slot; TPM 2.0
Expansion Slots	1 × M.2 2230 Key A (Wi-Fi 4/5/6E) 1 × M.2 2242/2280 Key B (SATA) 1 × M.2 2242/3042/3052 Key B (4G/5G or SATA)
Power Input	12–24V DC; AT/ATX mode
Shock Protection	50G, half sine, 11 ms
Vibration Protection	2Grms, random/sinusoidal, 5–500 Hz
Dimensions (W × D × H)	186 × 150 × 28 mm
Certifications	CE; FCC Class A
Operating Systems	Windows 11; Windows 10 IoT Enterprise (64-bit); Linux Kernel 4.1

Model Comparison

Feature	NISE 50 A04-01	NISE 50 A04-02	NISE 50 A04-03	NISE 50 A04-04
Processor	Intel Atom® x7433RE (1.5GHz)	Intel® Processor N97 (2.0GHz)	Intel® Processor N97 (2.0GHz)	Intel® Processor N97 (2.0GHz)
Max Memory	Up to 32GB	Up to 16GB	Up to 16GB	Up to 16GB
Operating Temp.	–40°C to 70°C	–20°C to 60°C	–20°C to 60°C	–20°C to 60°C
Storage Temp.	–40°C to 80°C	–20°C to 80°C	–20°C to 80°C	–20°C to 80°C
Rear I/O	–	–	1 × COM2 (DB9); 4 × USB 3.2	2 × USB Type-C (PD & DP Alt Mode)
Display Outputs	1 × HDMI®	1 × HDMI®	1 × HDMI®	1 × HDMI® + 1 × USB-C (DP Alt Mode)
Weight	0.9 kg	0.9 kg	0.9 kg	1.0 kg
Power Options	Standard DC adapter	Standard DC adapter	Standard DC adapter	Standard DC + USB-C PD 3.0 adapter