IWILL Nano-N1522

Fanless Mini PC • Dual 4K HDMI • 2× COM • 3× M.2
Intel® Processor N150 (Twin Lake) • TPM 2.0

The IWILL Nano-N1522 is a compact fanless mini PC built on the latest Intel® Processor N150 (Twin Lake) with DDR5 memory, in an all-aluminium alloy chassis that cools passively for silent 24/7 operation. Three M.2 slots plus Mini-PCIe with SIM, dual 4K HDMI, dual Gigabit LAN, 2× RS232/RS485 serial ports, 8× USB and TPM 2.0 security make it a versatile platform for industrial control and automation, robotics, AGV/AMR, machine vision, IoT and edge computing.





SYSTEM	
Model	Nano-N1522
Processor	Intel® Processor N150 — Twin Lake, 4 cores / 4 threads, up to 3.6 GHz
Graphics	Integrated Intel® Graphics
Memory	1× DDR5 4800 MHz SO-DIMM, up to 16 GB
BIOS	AMI UEFI BIOS
Storage	2× M.2 2280 M-key + 1× 2.5" HDD / SSD
Operating system	Windows 10 / 11, Linux
Security / management	TPM 2.0; power-on after power restore, timed power-on, Wake-on-LAN, PXE boot, watchdog (0–255)

DISPLAY & NETWORK	
Video output	2× HDMI — up to 4096 × 2160 @ 60 Hz, dual independent display
Network	2× Gigabit Ethernet RJ45 (Realtek RTL8111H)
Wireless	M.2 E-key Wi-Fi / Bluetooth (CNVio2) or Mini-PCIe Wi-Fi / 4G — optional

I/O & EXPANSION	
Front I/O	1× power switch, 4× USB 3.2, 2× COM (RS232 / RS485)
Rear I/O	1× DC-IN, 2× HDMI, 4× USB 2.0, 2× RJ45 LAN, 1× audio combo jack
USB	8× total (4× USB 3.2 + 4× USB 2.0)
M.2 slot 1	M.2 2280 M-key — PCIe 3.0 x1 NVMe & SATA
M.2 slot 2	M.2 2280 M-key — PCIe 3.0 x1 NVMe
M.2 slot 3	M.2 2230 E-key — CNVio2 Wi-Fi / Bluetooth
Mini-PCIe	1× (PCIe & USB 2.0 signals) for Wi-Fi / 4G, with built-in SIM slot
Optional ports	4× GPIO, 1× USB 2.0 — not included on standard version

POWER, CHASSIS & ENVIRONMENTAL	
Power input	DC 12V (12V / 5A adapter)
Chassis / cooling	High-quality all-aluminium alloy, fanless (passive cooling)
Colour	Metal ash (custom colours available)
Mounting	Desktop / VESA (bracket included), 8× M3 mounting points
Dimensions	150 × 126.5 × 45 mm
Weight	0.84 kg
Operating temp.	0°C to +40°C (commercial HDD) | -20°C to +50°C (industrial SSD)
Humidity	0%–95%, non-condensing

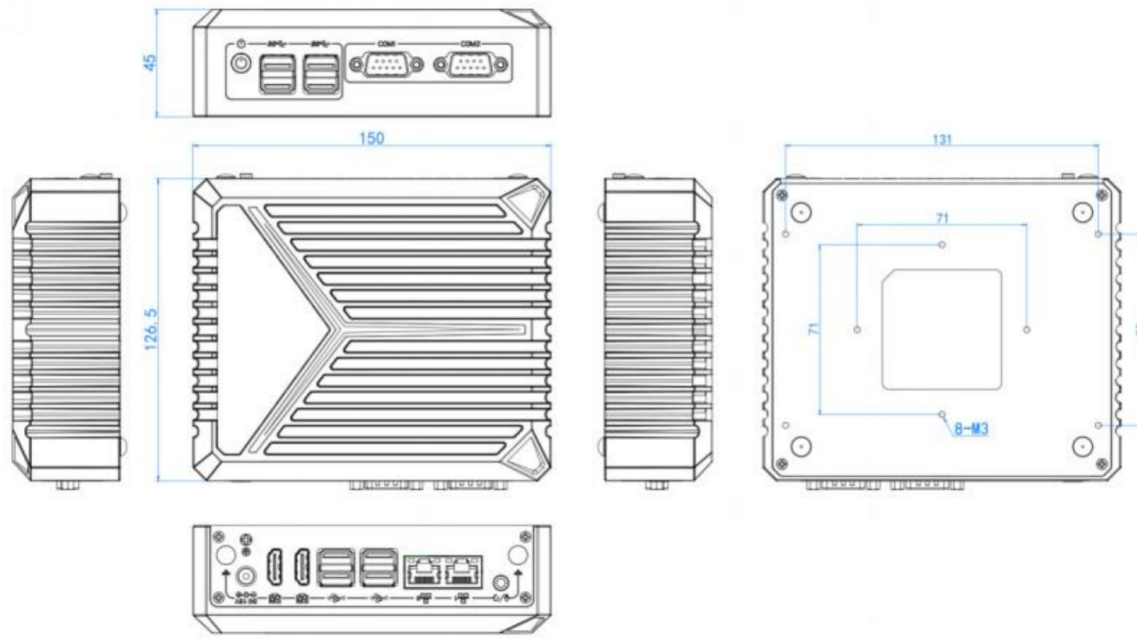
Certifications	CE, CCC, FCC Class A, RoHS
Applications	Industrial control and automation, robotics, AGV / AMR, machine vision, IoT, edge computing

PACKING LIST & ORDERING

In the box	Qty	Specification
Power adapter	1	12V / 5A
Power cord	1	EU / UK / US / CN
VESA bracket	1	Standard

Order code	Processor	Build
Nano-N1522	Intel® N150	Standard

Note: when Wi-Fi and 4G modules are fitted together, additional antenna holes are required — please confirm with pre-sales.



Mechanical drawing (mm) — front, top, sides, rear and base with 8× M3 VESA mounting pattern