



N1000 Specifications

Compact high-performance platform
Industrial design and robust reliability
Multi-channel communications
Up to 2070 TFLOPS for advanced embodied AI
Anti-loosening connectors for robot deployment

MS-N1000 HIGH-PERFORMANCE EDGE AI COMPUTER	
CATEGORY	SPECIFICATIONS
AI Module	NVIDIA Jetson T4000 / T5000
AI Performance	1200 TFLOPS FP4 sparse / 2070 TFLOPS FP4 sparse
Memory	64 GB / 128 GB, 256-bit LPDDR5X, 273 GB/s
Storage	1 TB M.2 2280 NVMe SSD, industrial, power-loss protection
Display Output	1 x HDMI OUT, up to 4096 x 3024 @ 30 Hz
Ethernet	4 x Gigabit Ethernet (open-source EtherCAT master) + 1 x GE pin header
USB	6 x USB 3.0, 5 Gbps, 2 A + 2 x USB 2.0 pin headers
Wi-Fi	M.2 E-Key Wi-Fi (PCIe), 500 Mbps Station + AP
5G	Supports M.2 3052 5G module (USB)
I/O	16 x GPIO 4 x RS-232/485 I2C SPI
CAN FD	2 x CAN FD
GMSL	8 x GMSL2
Audio	2 x 20 W audio out 1 x microphone in; optional iFLYTEK voice and noise reduction
Power Input	1 x XT60 connector, DC 9-48 V
Power-On Mode	Automatic power-on
Operating Temp.	-20 to 60 °C with industrial SSD; 95% RH @ 40 °C, non-condensing
Storage Temp.	-40 to 85 °C with industrial SSD
Vibration	2 Grms, 5-500 Hz, random, 1 h/axis
Shock	15 G, 11 ms operating; 30 G, 11 ms non-operating
Packaged Drop	80 cm, 3 faces, packaged
Software	JetPack 7.0 ROS 2 DDS Linux RT Xenomai
Weight	1.33 kg
Dimensions	118 x 126 x 61 mm (L x W x H)