



MB2-10ANS

Fanless Embedded System with Intel® Alder Lake-N N97 / i3-N305 Processor (up to 8 cores, 3.8 GHz)

- Intel® Alder Lake-N N97 (4C) / i3-N305 (8C8T) Processor
- 1 x DDR5 SO-DIMM and support up to 16GB
- Support Dual display for HDMI, and DisplayPort
- 2 x Intel® i226 2.5Gigabit Ethernet
- 1 x M.2 B Key, 1 x M.2 M Key, 1 x M.2 E Key slot
- 2 x USB 2.0, 3 x USB 3.2 Gen2 and 1 x USB Type C
- 8V~26V wide voltage power input
- Support Hailo-8™ AI Accelerator
- Support up to 26 TOPs
- Support Hailo-8™ Software Development Kit

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Specifications

MB2-10ANS (MB2-10ANS)

Ordering Information

Model	Processor	COM / GPIO	Operating Temperature	AC Adaptor
MB2-10ANS-N97	N97	2 / None	-25 ~ 60°C	None
MB2-10ANS-N97-AC	N97	2 / None	-25 ~ 60°C	60W AC to DC Adaptor
MB2-10ANS-N305	i3-N305	4 / 8-bit GPIO	-25 ~ 60°C	None
MB2-10ANS-N305-AC	i3-N305	4 / 8-bit GPIO	-25 ~ 60°C	60W AC to DC Adaptor

MB2-10ANS (MB2-10ANS) Specifications

SYSTEM	CPU	Intel® Alder Lake-N N97 (4C) / i3-N305 (8C8T) Processor
	CHIPSET	Intel® SoC Integrated
	SYSTEM MEMORY	DDR5 4800 MHz / 1 x 262-pin SO-DIMM / Max. 16GB (Non-ECC)
	GRAPHICS	Intel® UHD Graphics
	DISPLAY INTERFACE	DisplayPort 1.4 / HDMI 1.4
	STORAGE SLOT	1 x 2.5 HDD / SSD (Default w/ HDD Bracket) / 1 x M.2 2280 NVMe/SATA SSD / 1 x M.2 2242 SATA SSD
	ETHERNET	2 x Intel® I226-V 2.5G LAN
	AUDIO	Realtek® ALC256
	I/O CHIPSET	Nuvoton NCT6126D
	SIDE I/O	8-bit GPIO in 10-pin Terminal Block Type connector (for i3-N305 SKU only) / 2 x SMA Antenna hole with rubber cap
	TPM	Nuvoton NPCT760AABYX TPM2.0 (Optional)
	EXPANSION SLOT	Storage/LTE/5G Slot: 1 x M.2 2242/3042/3052 B Key (USB2.0/PCIeX1/SATAIII) / Storage: 1 x M.2 2280 M Key (PCIeX1/SATAIII) / Wireless: 1 x M.2 2230 E key (PCIeX1, USB2.0)
	INTERNAL SPEAKER	1 x Buzzer
	INDICATOR	Power Button / Power LED / HDD LED
POWER REQUIREMENT	FRONT I/O	3 x RS232 (i3-N305 SKU) 、 1 x RS232 (N97 SKU) / 2 x USB 2.0 / 1 x RS232 / 422 / 485 / 1 x Line-out
	REAR I/O	1 x 2-pin Header Remote Power on / off / 1 x DP1.4 / 3 x USB 3.2 Gen2 Type A / 1 x USB Type C (Support PD15W, 5V/3A, DP Alt mode, USB3.2 Gen1) / 1 x 2-pin Terminal Block Power Input / 2 x SMA Antenna hole with rubber cap / 1 x HDMI 1.4 / 2 x RJ-45
	WATCHDOG TIMER	1~255 steps by software program
MECHANICAL	POWER INPUT	8~26V Wide Range DC Input w/ Terminal Block Connectivity
	POWER ADAPTER	Optional DC12V / 5A / AC / DC / 60W adapter (For AC SKU)
ENVIRONMENTAL	THERMAL DESIGN	Fanless
	MOUNTING	Wallmount / 75 mm x 75 mm VESA Holes & Din Rail Mount + Transfer Plate Combo Kit (Optional)
	DIMENSIONS (W X D X H)	6.7" x 5.2" x 2.2" (171 x 133 x 57 mm)
	WEIGHT	2.1kg (4.6 lb)
	MATERIAL	Bezel and chassis: Steel / Top cover: Die casting
OS	OPERATING TEMPERATURE	-25°C to 60°C / with 0.7m/s Air Flow and Wide Temperature Memory/Storage
	STORAGE TEMPERATURE	-40 ~ 85°C (-40 ~ 185°F)
	OPERATING HUMIDITY	10% ~ 90% R/H (Non-condensing)
	STORAGE HUMIDITY	10% ~ 95% @85°C non-condensing
	VIBRATION RESISTANCE	Operating: 5Hz~500Hz / 5Grms / 3Axis (w/ SSD, according to IEC60068-2-64)
	SHOCK RESISTANCE	Operating: 50 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27)
PACKING LIST	CERTIFICATION	CE / FCC Class A
	OS SUPPORT	Linux (support by request) / Windows® 10 64-bit / Windows® 11 64bit,
	PACKAGE	1 x Quick Installation Guide / 1 x Embedded System / 1 x Wall Mount Brackets / 2 x 2 pin Terminal Block Power Connector / 1 x SATA and SATA power cable / 1 x 10-pin Terminal Block Male Connector (for i3-N305 SKU only)