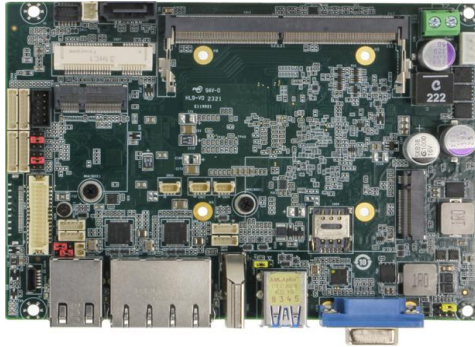


# AMB-3TI0

3.5" SubCompact Board  
with Intel® Core™ Processor N-series

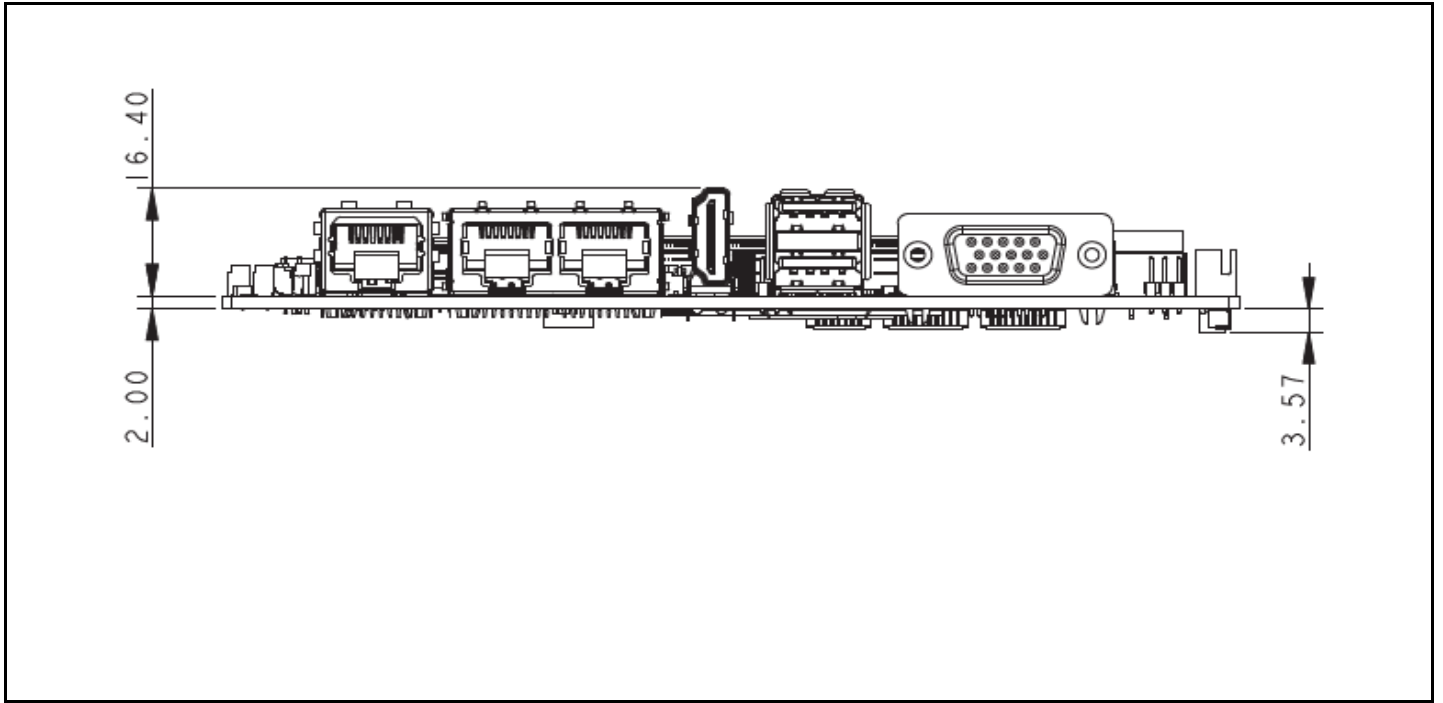


## Features

- Intel® Core™ Processor N-series, Intel® Processor N-series SoC
- DDR5 4800 SODIMM x 1, up to 16GB
- HDMI 1.4, VGA, LVDS
- 2.5GbE x 3, SATA 6Gb/s, GPIO 8-bit
- USB 3.2 Gen 2 x 2, RS-232/422/485 x 2, RS-232 x 2
- Mini PCIe x 1, M.2 2230 E-Key x 1, M.2 3052 B-Key x 1
- Wide 9V-36V DC Input

## Specifications

System		Audio	
Form Factor	3.5" SubCompact Board	Codec	Realtek ALC897
CPU	Intel® Processor N150 (4C/4T, up to 3.6 GHz, 6W) Intel® Core™ 3 Processor N355 (8C/8T, up to 3.90 GHz, 15W)	Audio Interface	Line-In / Line-Out / Mic (Audio function not available for WITAS SKU)
Chipset	Integrated with Intel® SoC	External I/O	
Memory	DDR5 4800, Single Channel SODIMM x 1, Max.16GB, Non-ECC	Ethernet	Intel® Ethernet Controller I226, 2.5GbE RJ-45 x 3
BIOS	UEFI	USB	USB 3.2 Gen 2 x 2
Wake on LAN	Yes	Video	HDMI 1.4 x 1, VGA x 1
Watchdog Timer	255 Levels	Internal I/O	
Security	TPM 2.0 (Optional)	USB	USB 2.0 x 4
RTC Battery	Lithium Battery 3V/240mAh	Serial Port	COM 1, COM 2 (RS-232/422/485, supports 5V/12V/RI) COM 3, COM 4 (RS-232)
Dimension	5.75" x 4" (146mm x 101.7mm)	Video	LVDS x 1 Inverter x 1 (12V/2A)
Gross Weight	0.94 lbs (0.43 kg)	SATA	SATA 6Gb/s x 1 +5V SATA Power Connector x 1
OS Support	Windows 10 (64-bit), Windows 11 (64-bit) Ubuntu 24.04.2 / Kernel 6.11.0-26-generic	Audio	Audio Header x 1
Power		DIO/GPIO	GPIO 8-bit
Power Requirement	+9V~36V (Optional: +12V), Support ERP	SMBus/I2C	SMBus/ I2C x 1 (Default)
Power Type	AT/ATX	Fan	4pins Smart Fan x1
Connector	Phoenix 2-pin Connector	Sim	Nano SIM x 1
Power Consumption	Intel® Core™ 3 Processor N355, DDR5 16GB x1, 4.15A@ +12V (TYPICAL) Intel® Core™ 3 Processor N355, DDR5 16GB x1, 5.06A@ +12V (MAX)	Front Panel	HDD LED, PWR LED, Power Button, Buzzer, Reset
		Others	—
Display		Expansion	
Controller	Intel® UHD Graphics	Mini PCIe/mSATA	Full-size mSATA / mPCIe x 1 (Default: mSATA, select by BIOS)
LVDS/eDP	LVDS x 1, Dual Channel 18/24-bit, up to 1920 x1080	M.2	M.2 2230 E-Key x 1 (PCIe 3.0 [x1] + USB 2.0) M.2 3052 B-Key x 1 (USB 3.2 Gen 2 + USB 2.0)
Display Interface	HDMI 1.4 x 1, up to 3840 x 2160 @30Hz VGA x 1, up to 1920 x 1080 (Optional: eDP 1.4b HBR3, up to 3840 x 2160)	Environment & Certification	
Multiple Display	Up to 3 Simultaneous Displays	Operating Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
		Storage Temperature	-40°F ~ 185°F (-40°C ~ 85°C)
		Operating Humidity	0% ~ 90% relative humidity, non-condensing
		MTBF (Hours)	337,963
		EMC	CE/FCC Class A



## Ordering Information

**Part Number / Item**

AMB-3TI0-001	Intel® Processor N150
AMB-3TI0-002	Intel® Core™ 3 Processor N355