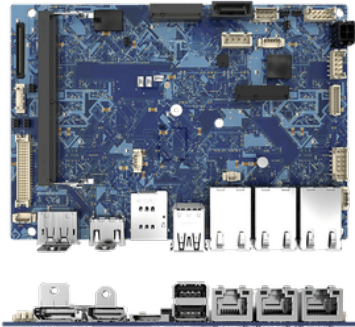




INDUSTRIAL MOTHERBOARD

CT-DAL11

3.5" SBC Industrial Motherboard With Intel® Alder Lake N97/ Atom® x7835RE Processors, 3x 2.5GbE LAN, LTE/5G Dual Nano SIM Socket



Features

- Supports Intel® N97/ Atom® x7835RE Processors
- 1x 262-pin DDR5 4800 MT/s SO-DIMM. Max. 16GB (Non-ECC)
- 3x Intel® i226V 2.5 GbE
- Triple independent displays supported: DP, HDMI, LVDS or eDP
- 1x Front Panel with Audio support by internal header
- 1x M.2 B Key 2242/3042 support for SATA SSD/4G/5G, 1x Dual Nano SIM Socket
- 2x USB 3.2 Gen 2 (10Gbps), 2x USB 2.0 (internal)
- 1x RS-232/422/485, 1x RS-232 (internal), 1x 8-bit GPIO
- 1x SATA 3.0 6Gb/s (Support AHCI)
- Watchdog timer 1~255 sec. System reset
- TPM 2.0 Supported
- Wide Voltage DC IN 12~36V

Specifications

System	
Processor	• 12th Gen Intel® Alder Lake-N Processor N97, 6M Cache, up to 3.60 GHz, 4 core 12W • Intel® Atom® x7835RE Processor 6M Cache, up to 3.60 GHz, 8 core 12W
System Chipset	SoC
LAN Chipset	GbE1: Intel i226V 2.5GbE LAN PXE Support GbE2: Intel i226V 2.5GbE LAN PXE Support GbE3: Intel i226V 2.5GbE LAN PXE Support
Audio Codec	REALTEK ALC897 High Definition Audio CODEC
System Memory	1x 262-Pin DDR5 4800 MT/s SO-DIMM. Max. 16GB (Non-ECC)
BIOS	AMI uEFI 256MB SPI flash
Watchdog	Software Programmable Supports 1~256 sec. System Reset
TPM	TPM 2.0
Display	
Display Port	1x DP 1.4a up to 4096x2304 @60Hz
eDP	1x eDP 1.4b up to 1920x1080 @60Hz
HDMI	1x HDMI™ 1.4b up to 3840x2160 @30Hz
LVDS	1x LVDS up to 1920x1200 @60Hz
Multiple Display	Triple Displays
Storage	
SATA	1x SATA 3.0 6Gb/s port (Support AHCI)
Expansion	
M.2	• 1 x M.2 B Key (SATA/PCIe x1/USB3.0), 2242/3042 for SATA/4G/5G support • 1 x M.2 E Key (PCIe x1, USB 2.0), 2230 for Wifi/Bluetooth
I/O	
Display Port	1x DisplayPort
HDMI	1x HDMI™ connector
LAN	3x RJ45
SIM	1x Dual Nano SIM Socket Support Failover (Attached M.2 B Key)
USB	2x USB 3.2 Gen 2 (10Gbps)
Internal I/O	
Audio	1x Front panel header
COM	1x RS-232/422/485 Internal 2.0PH headers 1x RS-232 Internal 2.0PH headers
GPIO	1x GPIO header 8-pin header (4 In/4 Out, non isolation)
SATA	1x SATA, 4-pin SATA power connector
USB	2x USB 2.0 Internal Headers
Others	• 1x 4-pin DC in 12~36V header • 1x SMBus header • 1x LVDS connector, 1x eDP connector • 1x 4-pin AMP header • 1x System fan header • 1x AMP connector
Operating System	
Windows	Windows 10 IoT Enterprise LTSC 2021 Windows 11 IoT Enterprise
Linux	Ubuntu 22.04 LTS
Power	
Power Mode	AT, ATX
Power Supply Voltage	DC IN 12~36V
Power Connector	Micro fit pitch 3.0 2x2 pin

Power Protection	OVP (Over Voltage Protection) OCP (Over Current Protection) Reverse Protection
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Mechanical Environment	
Form Factor	3.5" Embedded SBC
Operating Temperature	-10°C to 60°C, 10~90% (non-condensing)
Storage Temperature	-20°C to 80°C, 10~90% (non-condensing)
Certification	CE, FCC Class A
Physical	
Dimensions	146 x 102mm
Weights	0.58kg

Available Models

- CT-DAL11-N97-KIT-P
3.5 SBC SOC for 12th Alder Lake-N Processor N97, QC, 12W (I225-V), DDR5 W/HT, Cable, Box: Heatspreader COM Port Cable, 250mm DC Power Cable, 150mm SATA Cable with Power, 230mm USB Cable, 150mm, w/ Power Adapter
- CT-DAL11-x7835RE-KIT-P
3.5 SBC SOC for 12th Amston Lake Processor x7835RE, QC, 12W (I225-V), DDR5 W/HT, Cable, Box: Heatspreader COM Port Cable, 250mm DC Power Cable, 150mm SATA Cable with Power, 230mm USB Cable, 150mm, w/ Power Adapter

Optional Accessories

- 1-TDIO00008
DIO Cable 10pin 250mm
- 1-TADO00009
Audio Cable Line-in / Mic-in 100mm
- 1-E09A06011
Adapter 60W/12V 5.5/2.5mm Input100/240VAC
- 1-E09A06012
Adapter 60W/12V W/Lock 5.5/2.5mm Input100/240VAC

Packing List

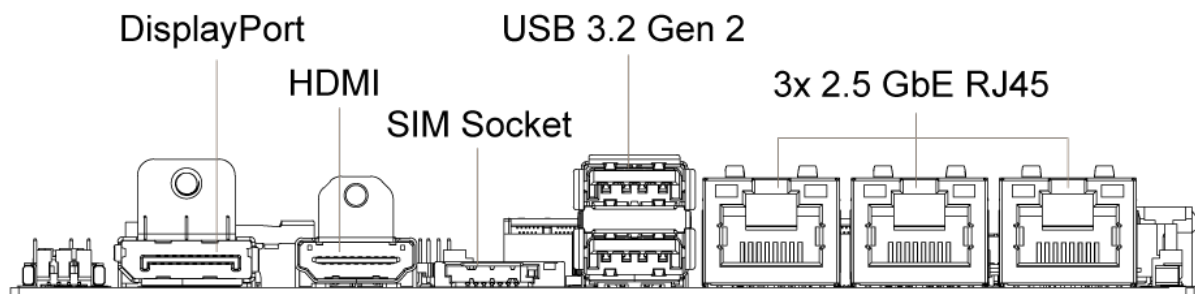
- 2x Power Cable 150mm
- 1x Power Button Cable 150mm
- 1x COM Cable 200mm
- 1x USB 2.0 Cable 200mm
- 1x SATA 7+ 15P Cable 200mm
- 1x Heatsink
- 1x Thermal CPU Pad
- 5x Screw M2 5x5L

US Exports And Tariff Codes

ECCN	5A992.c
HTS	8504.90.2000
ScheduleB	8473.30.0002

* All specifications and photos are subject to change without notice.

External I/O Mechanical Layout



Dimension

Unit: mm

