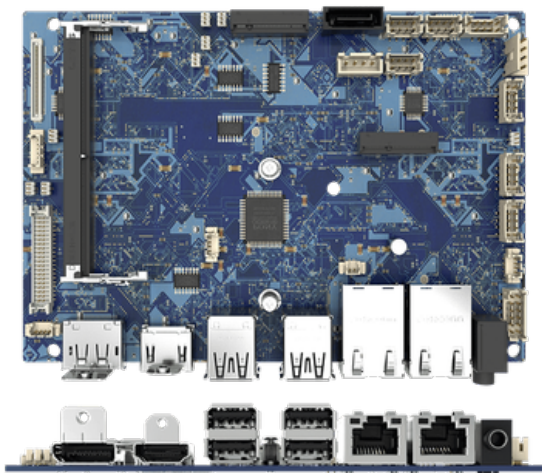




CT-DAL01

3.5" SBC Industrial Motherboard with Intel® 12th Gen Alder Lake-N Processors, 2x LAN



Features

- Supports 12th Gen. Intel® IoTG Alder Lake-N Processors
- 1x 262-pin DDR5 4800 SO-DIMM. Max. up to 16GB
- 2x 2.5 GbE RJ45 LAN
- Triple independent display supported: DP, HDMI, LVDS, eDP
- 1x Front Panel with Audio support by internal header
- 1x M.2 B Key 2242/2280/3042, 1x M.2 E Key 2230
- 2x USB 3.2 Gen 2 (10Gbps), 2x USB 3.2 Gen 1 (5Gbps), 6x USB 2.0 (internal)
- 2x RS-232/422/485 (internal), 1x 8-bit GPIO
- 1x SATA 3.0 6Gb/s (Support AHCI)
- Watchdog timer 1~256sec. system reset
- dTPM 2.0 Supported
- Wide Voltage DC-IN 9~36V

Specifications

System

Processor	<ul style="list-style-type: none"> • 12th Gen Intel® IoTG Alder Lake-N Processor N97, QC, 12W • 12th Gen Intel® IoTG Alder Lake-N Processor Core i3-N305, OC, 9W up to 15W
System Chipset	SoC
LAN Chipset	2x Intel® I225-V 2.5GbE LAN
Audio Codec	Realtek® ALC897
System Memory	1x 262-Pin DDR5 4800MHz SO-DIMM slot (262-pin), Max 16GB
BIOS	AMI uEFI 256MB SPI flash
Watchdog	Software Programmable Supports 1~256 sec. System Reset
TPM	dTPM 2.0

Display

Display Port	1x DP 1.4a up to 4096x2304 @60Hz
HDMI	1x HDMI™ 1.4b up to 3840x2160 @30Hz
LVDS	1x LVDS up to 1920x1200 @60Hz
Multiple Display	Triple Display

Storage

SATA	1x SATA 3.0 6Gb/s port (Support AHCI)
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Expansion

M.2	1 x M.2 B key (SATA/PCIe x1), 2242/3042/2280 1 x M.2 E key (PCIe x1, USB 2.0), 2230
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Rear I/O

Audio	1x Line-out
Display Port	1x DisplayPort
HDMI	1x HDMI™ connector
LAN	2x RJ45
USB	2x USB 3.2 Gen 2 (10Gbps) 2x USB 3.2 Gen 1 (5Gbps)

Internal I/O

Audio	1x Front panel header
COM	2x RS-232-/422/485 Internal 2.0PH headers
GPIO	1x GPIO header
SATA	1x SATA, 4-pin SATA power connector
USB	6x USB 2.0 Internal 2.0 Headers
Others	<ul style="list-style-type: none"> • 1x 4-pin DC in 9~36V header • 1x SMBus header • 1x LVDS connector, 1x eDP connector • 1 LVDS inverter header • 1x System fan header

Operating System

Windows	Microsoft® Windows® 10 Enterprise Windows 11 IoT Enterprise
Linux	Linux Kernel 5.x (Fedora 30 or above / Ubuntu 19.04 or above)

Power

Power Mode	DC in 9~36V
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Mechanical Environment

Form Factor	3.5" Embedded SBC
Operating Temperature	-10°C ~ 60°C, 10-90% (non-condensing)
Storage Temperature	-20°C ~ 80°C, 10-90% (non-condensing)
Certification	CE, FCC Class A

Physical

Dimensions	146 x 102mm
Weights	0.58kg

Available Models

- CT-DAL01-N97-KIT
3.5 SBC SOC for 12th Gen Intel Alder Lake-N Processor N97, QC, 12W (I225-V), DDR5 W/HT, Cable, Box
- CT-DAL01-I3-N305-KIT
3.5" SBC SOC for 12th Gen Intel Alder Lake-N Processor I3-N305, OC, 15W (I225-V), DDR5 W/HT, Cable, Box

Packing List

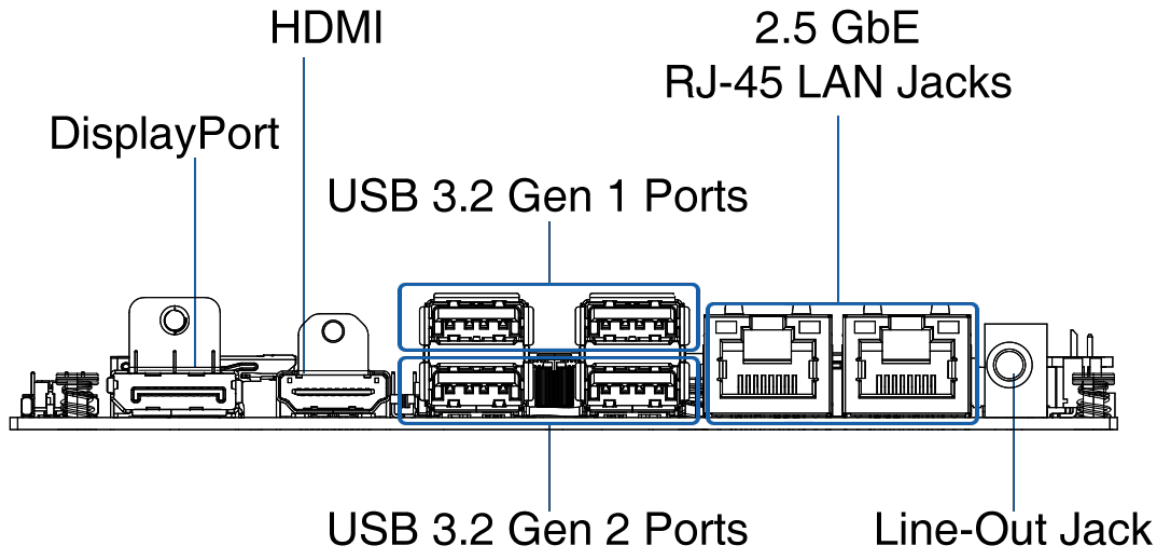
- 1x COM Port Cable 250mm
- 1x SATA Y-Cable with SATA and SATA Power 230mm
- 1x USB Cable 150mm
- 1x DC Power Cable 150mm
- 1x Heatsink

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

