



## CT-DAS02

3.5" SBC Industrial Motherboard With Intel® Processors N-series N97/N150, 2x 2.5GbE LAN, LTE/5G Nano SIM Socket



## Features

- Supports Intel® N150/N97 Processors
- 1x 262-pin DDR5 4800 SO-DIMM. Max. up to 32GB (Non-ECC)
- 2x Intel® i226V 2.5 GbE
- Triple independent displays supported: DP, HDMI, LVDS or eDP
- 1x M.2 M key 2280 NVMe, 1x M.2 E key 2230
- 1x M.2 B key 2242 NVMe/5G, 1x Dual Nano SIM Slot
- 3x USB 3.2 Gen 1 Type A, 1x USB 3.2 Gen 1 Type C, 3x 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) share with M.2 B key
- Watchdog timer 1~255 sec. System reset
- TPM 2.0 Supported
- Wide Voltage DC IN 9~36V

## Specifications

## System

Processor Standard	<ul style="list-style-type: none"> <li>• Intel® Processor N97, 6MB Cache, up to 3.60 GHz, 4-Core Processor Project Based</li> <li>• Intel® Processor N150, 6MB Cache, up to 3.60 GHz, 4-Core Processor</li> </ul>
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System Chipset	SoC
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LAN Chipset	GbE1: Intel i226V 2.5GbE LAN GbE2: Intel i226V 2.5GbE LAN
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Audio Codec	Realtek® ALC888S with Amp 5W
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System Memory	1x 262-Pin DDR5 4800 MT/s SO-DIMM. Max. up to 32GB (Non-ECC)
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Graphics	Intel® UHD Graphics
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BIOS	AMI uEFI 256MB SPI flash
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TPM	TPM 2.0
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## Display

Display Port	1x DP 1.4a up to 4096×2304 @60Hz
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HDMI	1x HDMI™ 1.4b up to 3840×2160 @30Hz
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Multiple Display	1x eDP / 1x LVDS (via shared connector)
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## Storage

M.2	1x M.2 M Key (2280, PCIe x2) support for NVMe
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SSD/HDD	1x SATA 3.0 (6Gb/s, AHCI), shared with M.2 B-Key (either SATA or M.2 B-key)
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## Expansion

M.2	1x M.2 B Key (2242/3042/3052, PCIe x1, USB 3.0) support for NVMe, 4G/5G Module 1x M.2 E Key (2230, PCIe x1, USB 2.0) support for Wifi/Bluetooth
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## I/O

LAN	2x 2.5GbE RJ45
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SIM	1x Dual Nano SIM Socket
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USB	3x USB 3.2 Gen 1 Type A 1x USB 3.2 Gen 1 Type C 2x USB 2.0 Pin header 3port
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## Internal I/O

COM	1x RS-232/422/485 Internal 1x RS-232 Internal
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DIO	4 in / 4 out (None Isolated)
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OOB	Internal header
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Others	1x Front Panel con 1x Audio con
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## Operating System

Windows	Windows 10/11
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Linux	Ubuntu 22.04 / 24.04 LTS
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## Power

Power Adapter	Optional AC/DC 12V/5A, 60W
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Power Mode	AT, ATX
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Power Supply Voltage	DC IN 9~36V
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Power Connector	Micro fit pitch 3.0 2x2 pin
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Power Protection	OVP (Over Voltage Protection) OCP (Over Current Protection) DC Surge Protection
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## Mechanical Environment

Form Factor	3.5" Embedded SBC
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Operating Temperature	-10°C to 60°C
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Storage Temperature	-20°C to 70°C
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Relative Humidity	10% to 95% (non-condensing)
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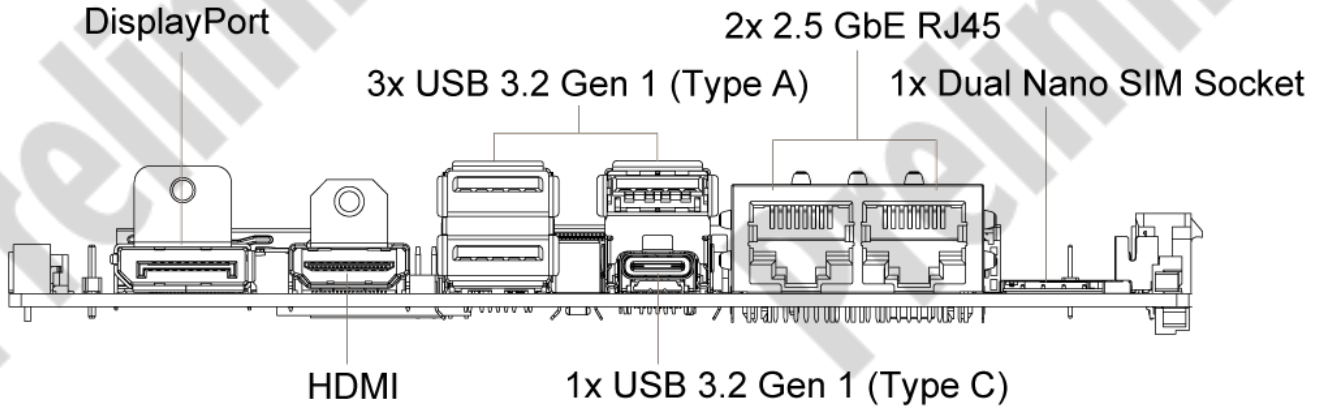
Certification	CE, FCC Class B, UKCA
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## Physical

Dimensions	146 x 102mm
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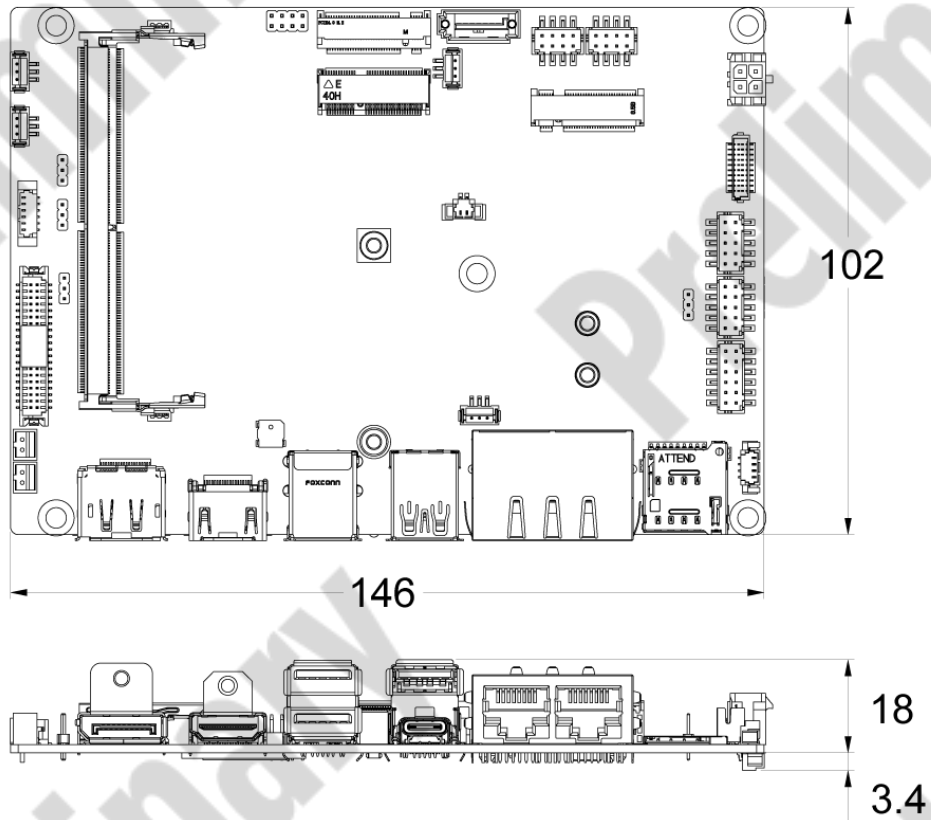
Weights	0.58kg
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External I/O Mechanical Layout



Dimension

Unit: mm



## Compliances and Standards

Operating Temperature	-10°C to 60°C IEC60068-2-1:2007 (Cold test procedure) IEC60068-2-2:2007 (Dry heat test procedure) IEC60068-2-3:2007 (Damp heat, steady state, test procedure) IEC60068-2-14:2009 (Wide temperature range thermal shock)
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EMC	<ul style="list-style-type: none"> <li>• FCC Class A (47 CFR part 15.109 and part 15.107)</li> <li>• CE</li> <li>• ICES-003</li> <li>• UKCA</li> <li>• Industrial EMC Compliance</li> <li>- EN 61000-4-2: 2009</li> <li>- EN IEC 61000-4-3: 2020</li> <li>- EN 61000-4-4: 2012</li> <li>- EN 61000-4-5: 2014 +A1: 2017</li> <li>- EN 61000-4-6: 2014</li> </ul>
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## Available Models

Model No.	Description
CT-DAS02-N150-KIT-P	Industrial 3.5" SBC Motherboard with Intel® N150 Processors 3.5" SBC, 2x 2.5GbE LAN with Cable & Heatsink Kit
CT-DAS02-N97-KIT-P	Industrial 3.5" SBC Motherboard with Intel® N97 Processors 3.5" SBC, 2x 2.5GbE LAN with Cable & Heatsink Kit

## Optional Accessories

Model No.	Description
1-TBTN00015	Button Cable with LED 150mm
1-TCOM00056	Dual COM Cable 150mm
1-TUSB00070	USB 2.0 Y Cable 200mm
1-TUSB00118	USB 2.0 Single Port Cable
1-TDIO00008	DIO Cable 10pin 250mm
1-TADO00027	Audio Cable Line-in / Mic-in 100mm
1-TADO00019	Audio Amp Extended Cable
1-TSAT00027	SATA7+15P Cable
1-TPWR00123	4P Micro Fit To DC Plug 5.5 x 2.5 With Lock 150mm
1-EOCB08D01	Speaker, 8ohm, 2W, L=500mm
1-E09A06012	Adapter 60W/12V W/Lock 5.5/2.5mm Input 100/240VAC
1-TPCD00005	AC Power Cord US Type_L=1830mm
1-TPCD00003	AC Power Cord JAP Type_L=1830mm
1-TPCD00002	AC Power Cord European Type_L=1713mm

## Exports And Tariff Codes

ECCN	5A992.c
HTS	8504.90.2000
ScheduleB	8473.30.0002