



INDUSTRIAL MOTHERBOARD

CT-DAS02

3.5" SBC Industrial Motherboard With Intel® Processors N-series N97/N150/ Atom® X7433RE, 2x 2.5GbE LAN, LTE/5G Nano SIM Socket



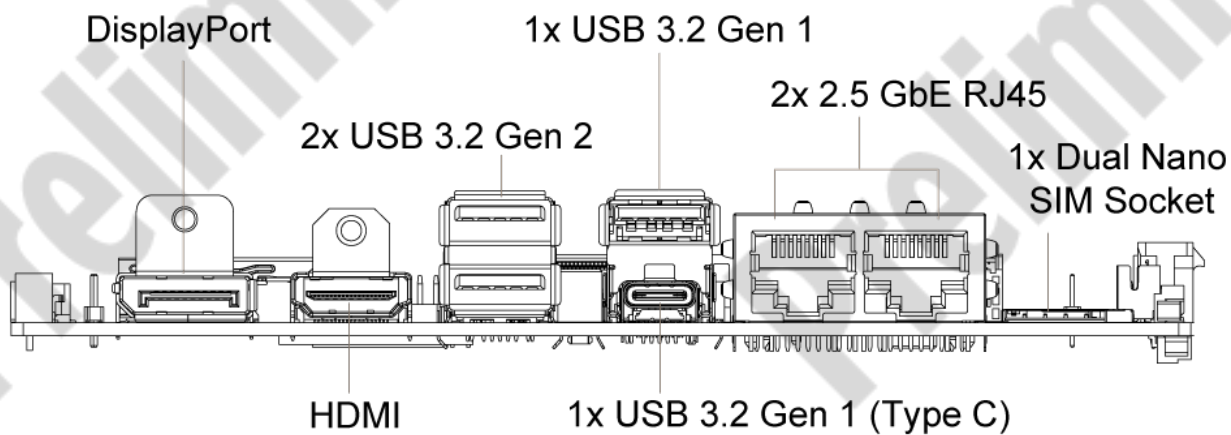
Features

- Supports Intel® N97 / N150 / Atom® x7433RE 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
- 2x USB 3.2 Gen 2 Type A, 1x 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

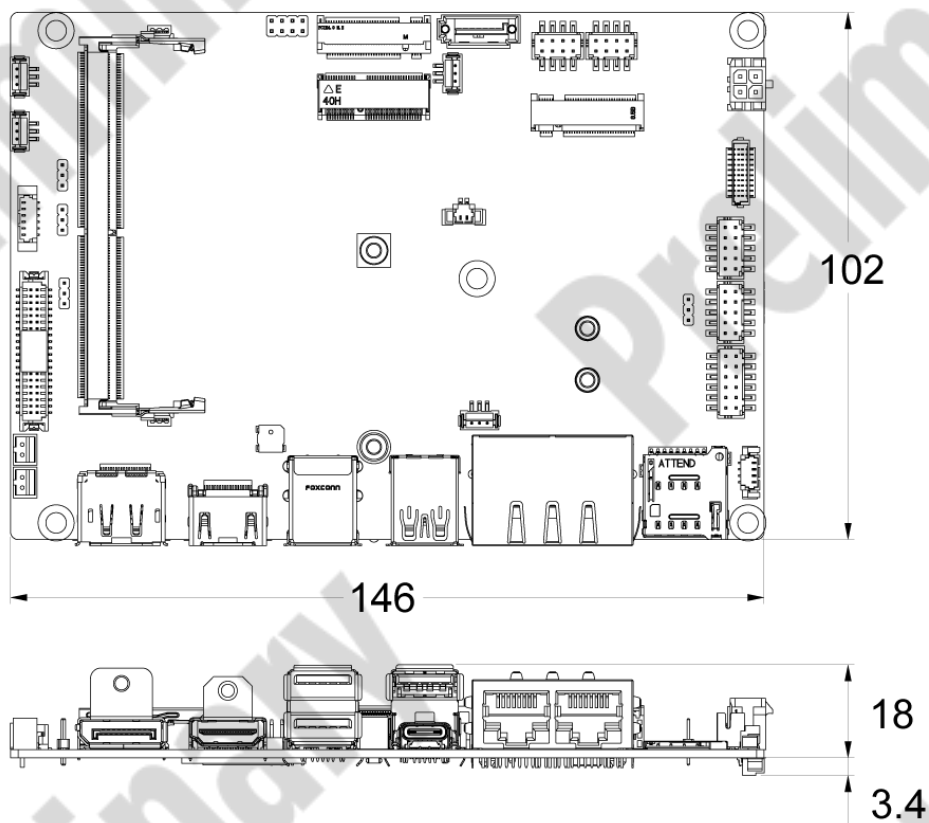
System		Mechanical Environment	
Processor	Standard	Form Factor	3.5" Embedded SBC
• Intel® Processor N97, 6MB Cache, up to 3.60 GHz, 4-Core Processor		Operating Temperature	-10°C to 60°C
Project Based		Storage Temperature	-20°C to 70°C
• Intel® Processor N150, 6MB Cache, up to 3.60 GHz, 4-Core Processor		Relative Humidity	10% to 95% (non-condensing)
• Intel® Atom® x7433RE, 6MB Cache, up to 3.40 GHz, 4-Core Processor		Certification	CE, FCC Class B, UKCA
System Chipset	SoC	Physical	
LAN Chipset	GbE1: Intel i226V 2.5GbE LAN GbE2: Intel i226V 2.5GbE LAN	Dimensions	146 x 102mm
Audio Codec	Realtek® ALC888S with Amp 5W	Weights	0.58kg
System Memory	1x 262-Pin DDR5 4800 MT/s SO-DIMM. Max. up to 32GB (Non-ECC)		
Graphics	Intel® UHD Graphics		
BIOS	AMI uEFI 256MB SPI flash		
TPM	TPM 2.0		
Display			
Display Port	1x DP 1.4a up to 4096x2304 @60Hz		
HDMI	1x HDMI™ 1.4b up to 3840x2160 @30Hz		
Multiple Display	1x eDP / 1x LVDS (via shared connector)		
Storage			
M.2	1x M.2 M Key (2280, PCIe x2) support for NVMe		
SSD/HDD	1x SATA 3.0 (6Gb/s, AHCI), shared with M.2 B-Key (either SATA or M.2 B-key)		
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		
I/O			
LAN	2x 2.5GbE RJ45		
SIM	1x Dual Nano SIM Socket		
USB	2x USB 3.2 Gen 2 Type A 1x USB 3.2 Gen 1 Type A 1x USB 3.2 Gen 1 Type C 2x USB 2.0 Pin header 3port		
Internal I/O			
COM	1x RS-232/422/485 Internal 1x RS-232 Internal		
GPIO	1x 8-bit GPIO non-isolation		
OOB	Internal header		
Others	1x Front Panel con 1x Audio con		
Operating System			
Windows	Windows 10/11 LTSC		
Linux	Ubuntu 22.04 / 24.04 LTS		
Power			
Power Adapter	Optional AC/DC 12V/5A, 60W		
Power Mode	AT, ATX		
Power Supply Voltage	DC IN 9~36V		
Power Connector	Micro fit pitch 3.0 2x2 pin		
Power Protection	OVP (Over Voltage Protection) OCP (Over Current Protection) Reverse Protection DC Surge Protection		

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)
-----------------------	---

EMC	- FCC Class A (47 CFR part 15.109 and part 15.107) - CE - ICES-003 - UKCA - Industrial EMC Compliance - EN 61000-4-2: 2009 - EN IEC 61000-4-3: 2020 - EN 61000-4-4: 2012 - EN 61000-4-5: 2014 +A1: 2017 - EN 61000-4-6: 2014
-----	---

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-E09A06012	Adapter 60W/12V W/Lock 5.5/2.5mm Input 100/240VAC
1-TPCD00001	AC Power Cord UK Type 1810mm
1-TPCD00002	AC Power Cord European Type 1713mm
1-TPCD00003	AC Power Cord JAP Type 1830mm
1-TPCD00005	AC Power Cord US Type 1830mm
1-TPWR00123	4P Micro Fit To DC Plug 5.5 x 2.5 With Lock 150mm
1-TPWR00195	3P Terminal Block(Female) To DC Plug 5.5 x 2.5 With Lock 100mm
1-E0CB08D01	Speaker 2W 8ohm 500mm
1-TADO00019	Audio Amp Extended Cable
1-TADO00027	Audio Cable Line-in / Mic-in 100mm
1-TBTN00015	Button Cable with LED 150mm
1-TCOM00056	Dual COM Cable 150mm
1-TCAN00008	CANBus Cable for Single Channel
1-TDIO00008	DIO Cable 10pin 250mm
1-TSAT00027	SATA7+15P Cable
1-TUSB00070	USB 2.0 Y Cable 200mm
1-TUSB00118	USB 2.0 Single Port Cable

Exports And Tariff Codes

ECCN	5A992.c
HTS	8504.90.2000
ScheduleB	8473.30.0002

Premio Inc.

918 Radecki Ct., City of Industry
 CA 91748, United States
 Toll Free: 800.977.3646

Premio Taiwan Inc.

18F, No.176, Jianyi Road, Zhonghe District,
 New Taipei City 235603, Taiwan
 Toll Free: 886.2.7731.7888

Email: sales@premioinc.com
 Website: <https://premioinc.com>