



INDUSTRIAL MOTHERBOARD

CT-DAS01

3.5" SBC Industrial Motherboard With Intel® Atom® x7835RE/x7433RE Processors, 2x 2.5GbE LAN, LTE/5G Nano SIM Socket



Features

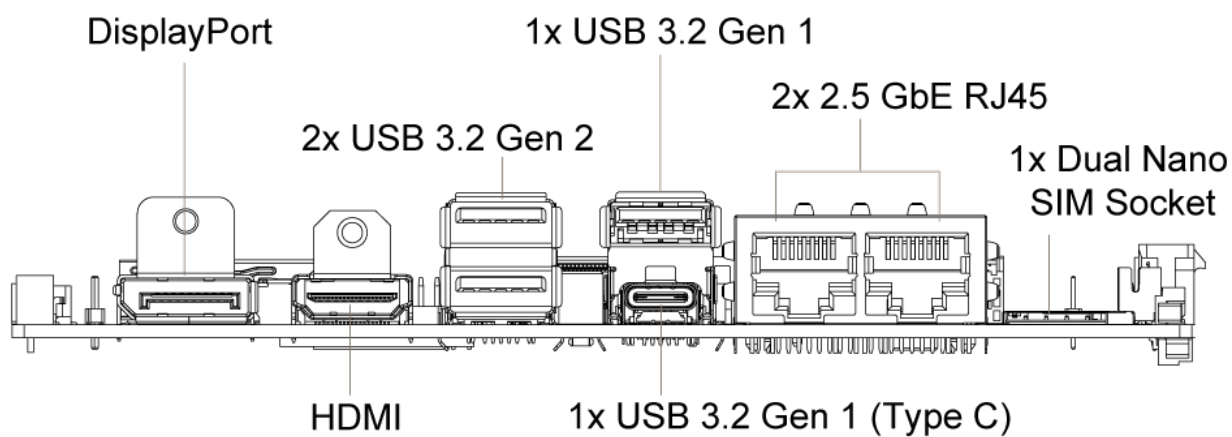
- Supports Intel® Atom® x7835RE/x7433RE Processors
- 1x 262-pin DDR5 4800 SO-DIMM. Max. up to 32GB (Non-ECC)
- 2x Intel® i226IT 2.5 GbE
- Triple independent displays supported: DP, HDMI, LVDS or eDP
- 1x M.2 M key 2280 NVMe, 1x M.2 E key 2230
- 1x M.2 B key 2242 NVMe/5G, 1x Dual Nano SIM Socket
- 2x 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)
- 2x RS-232/422/485, 1x 8-bit GPIO non-isolation, 2x CAN FD
- 1x SATA 3.0 (6Gb/s, AHCI), shared with M.2 B-Key (either SATA or M.2 B-key)
- Watchdog timer 1~255 sec. System reset
- TPM 2.0 Supported
- Wide Operating Temperature -40°C to 85°C
- Wide Voltage DC IN 9~36V

Specifications

System		Operating Temperature	-40°C to 85°C
Processor	Standard	Storage Temperature	-40°C to 85°C
• Intel® Atom® x7433RE Processor 6M Cache, up to 3.40 GHz 4 core		Relative Humidity	10% to 95% (non-condensing)
Project Based		Certification	CE, FCC Class B, UKCA
• Intel® Atom® x7835RE Processor 6M Cache, up to 3.60 GHz 8 core		Physical	
System Chipset	SoC	Dimensions	146 x 102mm
LAN Chipset	GbE1: Intel i226IT 2.5GbE LAN GbE2: Intel i226IT 2.5GbE LAN	Weights	0.58kg
Audio Codec	Realtek® ALC888S with Amp 5W		
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 1.4 up to 4096×2304 @60Hz		
HDMI	1x HDMI 2.0b up to 4096 x 2160@60Hz		
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	1× 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			
CAN Bus	2x CAN FD		
COM	2x RS-232/422/485 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		
Mechanical Environment			
Form Factor	3.5" Embedded SBC		

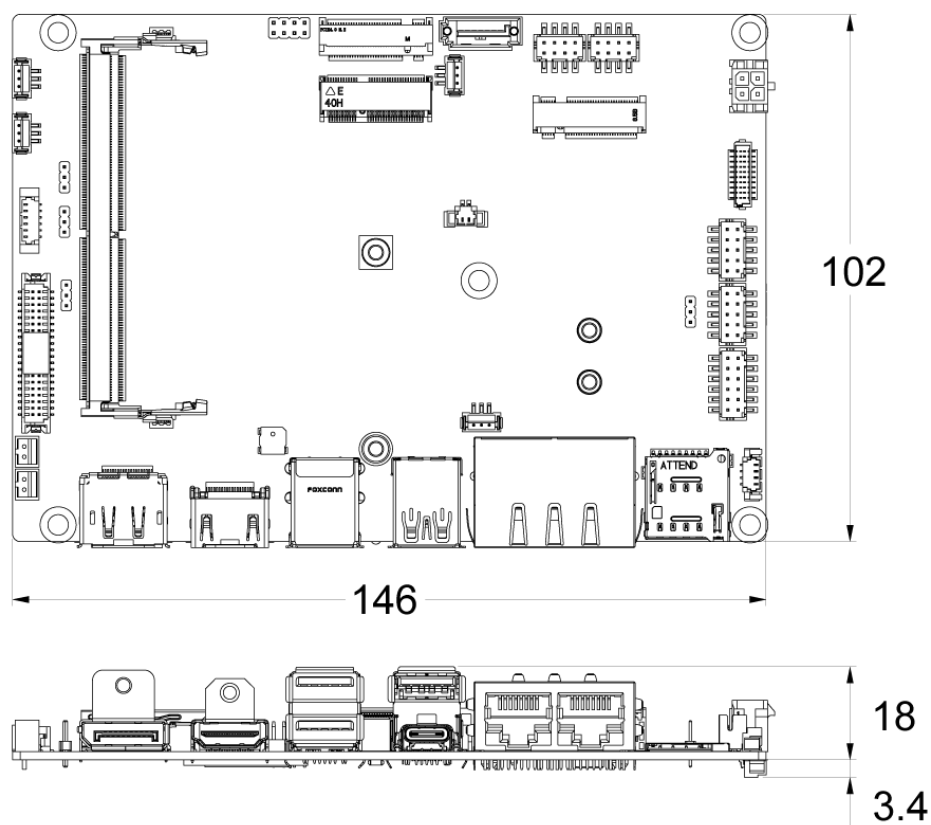
* All specifications and photos are subject to change without notice.

External I/O Mechanical Layout



Dimension

Unit: mm



Compliances and Standards

Operating Temperature	-40°C to 85°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 B (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-DAS01-x7433RE-KIT-P	Industrial 3.5" SBC Motherboard with Intel® Atom® x7433RE Processors 3.5" SBC, 2x 2.5GbE LAN with Cable & Heatsink Kit
CT-DAS01-x7835RE-KIT-P	Industrial 3.5" SBC Motherboard with Intel® Atom® x7835RE 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

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