



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
- 3x USB 3.2 Gen 1 Type A, 1x USB 3.2 Gen 1 Type C, 2x USB 2.0 (Internal)
- 2x RS-232/422/485, 1x DIO
- 1x SATA 3.0 6Gb/s (Support AHCI), shared 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	• Intel® Atom® x7433RE Processor 6M Cache, up to 3.40 GHz 4 core • Intel® Atom® x7835RE Processor 6M Cache, up to 3.60 GHz 8 core
System Chipset	SoC
LAN Chipset	GbE1: Intel i226IT 2.5GbE LAN GbE2: Intel i226IT 2.5GbE LAN
Audio Codec	Realtek® ALC888S with Amp 5W
System Memory	1x 262-Pin DDR5 4800MHz 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 (Combin connector)
Storage	
M.2	1x M.2 M Key (2280, PCIe x2) support for NVMe
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	
Display Port	1x DisplayPort
HDMI	1x HDMI
LAN	2x 2.5GbE RJ45
SIM	1x Dual Nano SIM Socket
USB	3x 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
DIO	4 in / 4 out (None Isolated)
OOB	Internal header
Others	1x Front Panel con 1x Audio con
Operating System	
Windows	Windows 10/11
Linux	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) DC Surge Protection
Mechanical Environment	
Form Factor	3.5" Embedded SBC
Operating Temperature	-40°C to 85°C

Storage Temperature	-40°C to 85°C
Relative Humidity	10% to 95% (non-condensing)
Certification	CE, FCC Class B, UKCA, UL62368

Physical	
Dimensions	146 x 102mm
Weights	0.58kg

Available Models

- CT-DAS01-x7433RE
Industrial Motherboard with Intel® Atom® x7433RE Processors 3.5" SBC, 2x 2.5GbE LAN
- CT-DAS01-x7835RE
Industrial Motherboard with Intel® Atom® x7835RE Processors 3.5" SBC, 2x 2.5GbE LAN

Optional Accessories

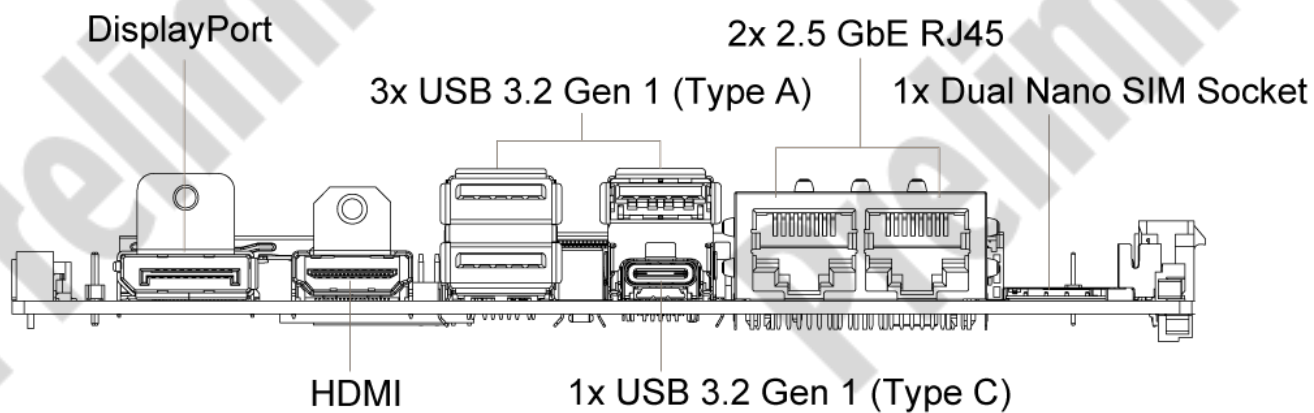
- 1-TBTN00015
Button Cable with LED 150mm
- 1-TCOM00057
Daul COM Cable 150mm
- 1-TUSB00070
USB 2.0 Y Cable 200mm
- 1-TPWR00123
4P Micro Fit To DC Plug 5.5 x 2.5 With Lock 150mm
- 1-TPWR00118
3P Terminal Block(Female) To DC Plug 5.5 x 2.5 With Lock 100mm
- 1-TDIO00008
DIO Cable 10pin 250mm
- 1-TADO00009
Audio Cable Line-in / Mic-in 100mm
- 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_1713mm

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

