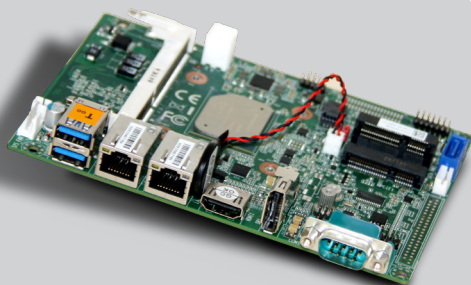


# ADE-20C1

3.5" Embedded Single Board Computer with Intel® Atom™ E3950 CPU



## Features

- Intel® Atom™ x7 E3950 4C 2.0 GHz, 12W
- 3.5" Single Board Computer
- eMMC NAND Flash built-in
- HDMI/DP/LVDS Triple Display
- 4K Immersive Graphics and Media Performance
- 2x RJ-45 LAN Support

## Specifications

CPU	Intel® Atom™ x7 E3950 4C 2.0 GHz, 12W
BIOS	AMI Aptio V UEFI
Graphic	Support DX12, OpenGL 4.3 & OpenCL 2.0
System Memory	1 x SO-DIMM, Support DDR3L 1866,1600 MHz up to 8GB, non ECC
Storage	eMMC 64GB
Watchdog Timer	N/A
Wake on	Wake On LAN, Wake On Time, Wake On USB
H/W Status Monitor	Monitoring CPU and system temperature( by thermal Diode), SoC fan speed
TPM	TPM 2.0

## External I/O

LAN	2 x RJ-45 LAN Port
USB	2 x USB 3.0 (stacked type)
HDMI	1 x HDMI
DP	1 x DP
COM	1 x COM (Optional)

## Internal I/O

SATA	1 x SATA3.0
SATA Power	1 x (1x4) 2.0mm wafer
Mini PCIe	1 x mini-PCIe slot ( PCIe1 ) Half size for WiFi-BT Module 1 x mini-PCIe slot (PCIex1), Full size for mPCIe CANbus Card
LVDS	1 x (2x20) 1.25mm pin-header; support dual channel 48-bit LVDS (Optional)
USB	1 x (2x 5) 2.0mm pitch pin-header supports two USB2.0 Max 500mA
COM	1 x (2x5) 2.0mm box header for COM Function (Optional)
Audio	1 x (2x7) 2.0mm pin header for speaker / Line-out / Line-in
Fan Power	1 x (1x4) 2.54mm pin-header for CPU fan with PWM function
CMOS Clear	1 x (1x3) 2.0mm pin-header
Front Panel	1 x (2x5) 2.0mm pin-header for Power button, Reset button, Power LED & Storage LED

## Display

LVDS	1 x LVDS (1920x1200) (Optional)
HDMI	1 x HDMI (3840x2160)
DP	1 x DP (4096x2160)

## Power Supply

Power Type	1 x (2 x 2) ATX_12V DC input connector supports mini Din-4P by cable(Tolerance +-5%)
Battery	1 x CR2032

## Ethernet

Interface	IEEE 802.3 10BASE-T / 100BASE-TX / 1000BASE-Tcompliant 2 x RJ-45 connector with two LED indicators
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## Audio

HDAC	Support High Definition Audio Codec
PC Buzzer	PC buzzer header

## Operation Systems

OS	Win10 Pro.(64bit), Win10 IoT(64bit), Linux(64bit) Ubuntu 18.04
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## Environments / Certification

Compliance	ROHS 2.0, WEEE, REACH
Operating Temperature	0°C~60°C (32°F~140°F)
Storage Temperature	-20°C~80°C (-4°F~176°F)
Operating Humidity	10%~90% relative humidity, no condensing
EMI Protection	CE, FCC Class B



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