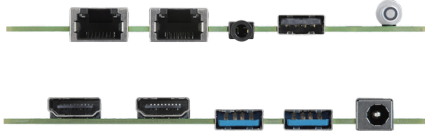
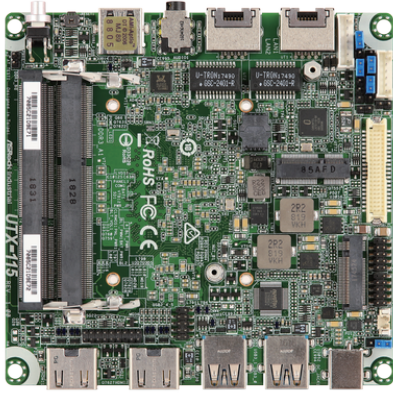


UTX-115

UTX Motherboard



KEY FEATURES

- Intel® Apollo Lake SoC Processor
- 2 x 204-pin SO-DIMM up to 16GB DDR3L 1866 MHz (8GB per DIMM)
- 2 x USB 3.1 Gen1, 3 x USB 2.0, 1 x M.2 Key E, 1 x M.2 Key B, 1 x SIM slot, 1 x COM
- 2 x Realtek 1 Gigabit LAN
- Supports triple display, 2 x HDMI 1.4b, 1 x LVDS
- TPM header
- 12V DC-In/ 4-pin ATX PWR Con

SPECIFICATIONS

Form Factor

Dimensions	UTX (4.4-in x 4.6-in)
------------	-----------------------

Processor System

CPU	Intel® Apollo Lake SoC Processor UTX-115J (J3455, QC, 1.5 GHz, 10 W) UTX-115D (N4200, QC, 1.1 GHz, 6 W) UTX-115L (N3350, DC, 1.1 GHz, 6 W)
Chipset	MCP
Socket	FCBGA1296
BIOS	AMI SPI 128 Mbit

Memory

Technology	Dual Channel DDR3L 1866 MHz
Capacity	16 GB (8 GB per DIMM)
Socket	2 x 204-pin SO-DIMM

Graphics

Controller	Intel® Gen9 Graphics DX 12
HDMI	HDMI 1.4b Max resolution up to 4096 x 2160@24Hz
DisplayPort	N/A
VGA	N/A
LVDS	Dual channel 24 bit up to 1920x1200@60Hz
eDP	N/A
DVI	N/A
MultiDisplay	Triple Display

Expansion Slot

PCIe	N/A
PCI	N/A
mini-PCIe	N/A
M.2	1 x Key E (2230) with PCIe x1 and shared USB 2.0 for Wireless
SIM Socket	1 x Socket connected to M.2 Key_B

Audio

Interface	Realtek ALC233, High Definition Audio. Line-out, Mic-in
-----------	---

Ethernet

Controller/ Speed	2 x Realtek RTL8111G with 10/100/1000 Mbps
Connector	2 x RJ-45

Front I/O

HDMI	2 x HDMI 1.4b
DisplayPort	N/A
USB	2 x USB 3.1 (Gen1)
Audio	1 (Mic-in or Line-out)

Rear I/O

HDMI	N/A
DisplayPort	N/A
VGA	N/A
DVI	N/A
Ethernet	2 x 1 Gigabit LAN
USB	1 x USB 2.0
Audio	1 (Mic-in, Line-out)
COM	N/A
PS2	N/A

Internal Connector

USB	1 x USB 2.0 (2 x 2.54 pitch header)
COM	1 x COM (RS232)
Parallel	N/A
GPIO	N/A
TPM	TPM Header
LVDS	1
eDP	0
VGA	N/A
SATA PWR Output	N/A
Speaker Header	N/A

Storage

M.2	1 x M.2 (KEY B, 3042) with USB 2.0 + SATA/PCIe x2 + SIM for 4G
mSATA	N/A
SATA	N/A
eMMC	32GB/64GB

Watchdog Timer

Output	From Super I/O to drag RESETCON#
Interval	256 Segments, 0, 1, 2, ...255sec

Power Requirements

Input PWR	12V DC-In/ 4-pin ATX PWR Con
Power On	AT/ATX Supported - AT : Directly PWR on as power input ready - ATX : Press button to PWR on after power input ready

Environment

Operating Temp	0°C ~ 60°C
Storage Temp	-40° C ~ 85° C
Operating Humidity	5% ~ 90%
Storage Humidity	5% ~ 90%