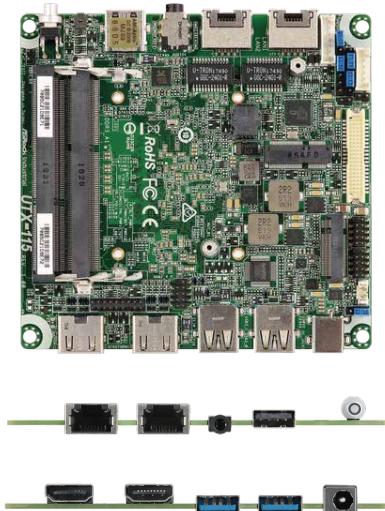




UTX-115

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/RTL8111H-CG 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% |

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