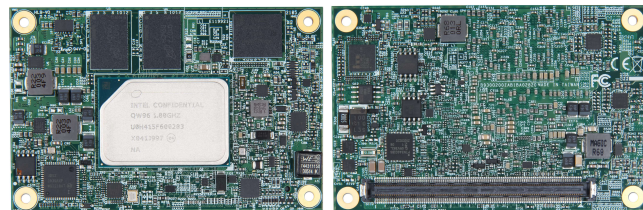


EHLMA-IM-A

With Intel® Atom® x6000 series SoC based on Type 10 mini COM-Express® module with LPDDR4 SDRAM, provides LVDS, and high quantity HDMI, eDP, DP with 4K resolution.. And supports PCIe 3.0 x 1, USB 3.2, USB 2.0 and 2 x SATA III interface.

Features

- Intel® Atom® Processor x6000 Series (Elkhart Lake)
- On board LPDDR4 DRAM up to 8GB
- On board eMMC up to 64GB
- Low Power Consumption (4.5 to 12W), 4K Resolution
- Support wide temperature -40°C ~ 85°C
- Support Intel® TCC/TSN with 2.5GbE



Specifications

| | | | | | | | |
|-------------------------|--------------------------------|---|--------------------------|------------------------|------------------------|------------------------|-------------------------|
| Processor System | Processor | Intel® Pentium® J6426 | Intel® Celeron® N6211 | Intel® Atom® x6211E | Intel® Atom® x6413E | Intel® Atom® x6425E | Intel® Atom® x6425RE |
| | Core | 4 | 2 | 2 | 4 | 4 | 4 |
| | Frequency | 2.0 GHz | 1.2 GHz | 1.3 GHz | 1.5 GHz | 2.0 GHz | 1.9 GHz |
| | Turbo | 3.0 GHz | 3.0 GHz | 3.0 GHz | 3.0 GHz | 3.0 GHz | N/A |
| | Cache | 1.5MB | 1.5MB | 1.5MB | 1.5MB | 1.5MB | 1.5MB |
| | Processor Graphics | Intel® UHD Graphics for 10th Gen Intel® Processors | | | | | |
| | Graphics Max Dynamic Frequency | 850 MHz | 750 MHz | 750 MHz | 750 MHz | 750 MHz | N/A |
| | HW Decoding | H.264, MPEG2, V1-1/WMV9, H.265/HEVC, VP8/9, JPEG/MPEG | | | | | |
| | Processor TDP | 10W | 6.5W | 6W | 9W | 12W | 12W |
| Memory/ eMMC | Technology | On board LPDDR4 DRAM up to 8GB | | | | | |
| | In-Band ECC | N/A | N/A | Support | Support | Support | Support |
| | On Board LPDDR4 | 8GB 3200 MT/s | 4GB 3200 MT/s | 4GB 3200 MT/s | 8GB 3200 MT/s | 8GB 3200 MT/s | 8GB 4267 MT/s |
| | On Board eMMC | 32GB | 16GB | 16GB | 16GB | 32GB | 16GB |
| Display | HDMI | up to 4096x 2160 @ 60Hz | | | | | |
| | Display Port | up to 4096x 2160 @ 60Hz | | | | | |
| | LVDS | Dual Channel, up to 2560x 1600 @ 60Hz | | | | | |
| | eDP | up to 4096x 2160 @ 60Hz | | | | | |
| | VGA | N/A | | | | | |
| Expansion Slot | PEG | N/A | | | | | |
| | PCIe | 4 x PCIe 3.0 x 1 | | | | | |
| Ethernet | Interface | 2.5 GbE with GPHY215 | | | | | |
| Audio | Interface | Intel HD Audio | | | | | |
| Serial Bus | SMBus | Yes, Baud Rate: 100KH | | | | | |
| | I2C | Yes, Baud Rate: 400KHz | | | | | |
| | UART | 2 Ports (TX/RX) | | | | | |
| I/O | SATA | 2 x SATA III | | | | | |
| | USB3.2 | 2 Ports | | | | | |
| | USB2.0 | 6 Ports | | | | | |
| | GPIO | 8 x GPIO | | | | | |
| | SPI Bus | For BIOS/TPM | | | | | |
| | Watchdog | Support | | | | | |
| | TPM | TPM 2.0, Intel®AES | | | | | |
| Power | Type & Voltage | 4.75V to 20V, AT/ATX Mode | | | | | |
| Environment | Operating Temperature | 0°C to 60°C | | | | | |
| | Storage Temperature | -40°C to 85°C (Selected SKU) | | | | | |
| | Storage Temperature | -40°C to 85°C | | | | | |
| OS | Windows | Win 10 IoT Enterprise | | | | | |
| | Linux | Ubuntu , Yocto | | | | | |
| Mechanical | Dimension | 84 x 55 mm | | | | | |

Block Diagram

