

IoT Edge Embedded System

Delivering rugged edge IoT solutions for demanding environments

AES-EL6KA

Compact.Flexible.Efficient.



- Intel Atom® x6000E Celeron® series Processor
- Onboard LPDDR4 Memory up to 8GB
- Onboard eMMC Storage up to 64GB
- Dual HDMI 2.0 displays up to 4K at 60Hz
- Dual RJ45 GbE Lan
- 2 x USB 3.2 Gen1, 2 x USB2.0
- 2 x RS232/422/485
- TPM 2.0
- Fan-Less design



Industrial



Military



Marine



Kiosk



Home
Automation



Digital
Signage

AES-EL6KA

Intel Elkhart Lake System



Features

- Onboard LPDDR4 Memory 4GB
- Onboard eMMC Storage up to 64GB
- Dual HDMI 2.0 displays up to 4K at 60Hz
- Dual RJ45 GbE Lan
- 2 x USB 3.2 Gen1, 2 x USB 2.0
- 2 x RS232/422/485
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Specification

System

| | |
|---------|---|
| CPU | A1: Intel® Celeron® N6210, Dual-Core, 1.5M Cache, 1.2GHz (2.6GHz), 6.5W A2: Intel® Celeron® J6412, Quad-Core, 1.5M Cache, 2GHz (2.6GHz), 10W |
| Chipset | Intel Elkhart Lake SoC |
| Memory | N6210 On board 4GB J6412 On board 4GB |
| BIOS | AMI UEFI BIOS |

Video

| | |
|--------------------|---------------------------|
| Graphic Controller | Intel® Gen10 UHD Graphics |
| Video Memory | Shared Memory |
| Video Interface | 2 x HDMI 2.0 |

Storage

| | |
|---------|--|
| Storage | A1: On board 32GB A2: On board 64GB |
|---------|--|

I/O

| | |
|----------------|--|
| Ethernet | 2 x GbE LAN (RJ45) |
| Expansion Slot | 1x M.2 2230 E Key 1x Mini-PCI-e |
| USB | 2 x USB 3.2 Gen1 Type A, 2 x USB 2.0 Type A, |
| GPIO | 4 bit GPIO (Reserved) |
| COM | 2 x RS232/422/485 |
| Optional Parts | Power adaptor + Power Code Din Rail Mount Kits Intel Wi-Fi 6E Module Sata & Power cable |

Power Requirement

| | |
|-------------|-----------|
| Power Input | 12V DC in |
|-------------|-----------|

Software

| | |
|------------|---|
| OS Support | Windows 10 Full,, Windows IOT Kernel 4.8, Ubuntu 22.04 |
|------------|---|

Mechanical & Environment

| | |
|-----------------|-----------------|
| Dimension | 140 x 90 x 45mm |
| Operating Temp. | 0~60°C |
| Safety | RoHS |

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