



UP Squared Pro 710H Edge

UP Edge System | Intel AI solution with Hailo module

- Intel® Atom® X-series, N-series, and Intel® Core™ i3-N305 Processors
- Onboard Hailo-8™ Edge AI Processor
- 2 Independent Displays up to 4K @60Hz
- RS-232/422/485 x 2, 2.5GbE x 2, 40-pin GPIO
- M.2 2230 E-Key x 1, M.2 2280 M-Key x 1 (Optional: M.2 3052 B-Key x 1)
- TPM 2.0
- 12V~36V DC Input with Phoenix Connector



BOXER-8654AI-KIT

AI@Edge Embedded Board | NVIDIA® Jetson Orin™ NX/Orin Nano™

- NVIDIA® Jetson Orin™ NX/Orin Nano™
- MIPI Connector x 2 (4 lanes)
- GbE x 4 (Optional PoE support)
- RS-232/422/485 x 1, CAN bus x 1
- 40-pin Header compliant with NVIDIA® Jetson Orin Nano™ Developer Kit
- M.2 2230 E-Key x 1, M.2 2280 M-Key x 1, M.2 3052 B-Key x 1
- 12V~24V DC Input
- TPM 2.0 Support (by Jumper select)



Always Agile, Always Ahead.



UP Xtreme ARL

UP Developer Board | Intel® Core™ Ultra Processor

- Intel® Core™ Ultra Processors
- Onboard LPDDR5 up to 32GB
- 4 Independent Displays up to 4K @60Hz
- 2.5GbE x 1, GbE x 1
- USB 4.0 (Type-C), RS-232/422/485 x 2
- 40-pin GPIO, TPM 2.0
- M.2 2280 M-Key x 2, M.2 3052 B-Key x 1, M.2 2230 E-Key x 1



UP Xtreme 7100

UP Developer Board Designed for Robotics

- Intel® N-series, Core™ i3-N305 Processors
- Anti-vibration design: Onboard 16GB Memory, 64GB eMMC
- 2.5GbE x 2, USB x 5
- 2-channel CAN 2.0B x 1 Onboard
- RS-232/422/485 x 1, 6-pin GPIO
- 24V 8-in/8-out Digital I/O, Output 500mA/channel
- High Expandibility: M.2 3052, M.2 2230, M.2 2280
- 9V~36V DC Input, Low Power Consumption



Hailo-8™ M.2 2280

UP AI Modules | AI Acceleration Module

- Powered by 26 TOPS Hailo-8™ AI Processor
- Broad Compatibility: M.2 2280 B+M Key
- Frameworks: TensorFlow and ONNX Support



GAR-A750E

Advanced Graphics Card | Intel® Arc™ A750E GPU

- High-Performance Graphics: 2400MHz turbo frequency, 28 X^e-Cores, and 28 Ray Tracing Units
- 16GB GDDR6 Memory: 256-bit interface, 16 Gbps memory speed
- Broad Compatibility: PCIe 4.0 x16
- Quad Display Support: Simultaneous display outputs up to 7680 x 4320 @ 60Hz
- Video Encoding/Decoding: H.264, H.265 (HEVC), AV1, and VP9 hardware support
- Advanced Technologies: Ray tracing, variable rate shading (VSR), and DirectX 12 Ultimate
- Intel Deep Link Integration

Our AI Partners



Our Camera Solutions



Our Unique Services

We specialize in services including Jetpack OS image optimization, custom NVIDIA carrier board design, tailored security and diagnostic tools for Jetson platforms, and precise hardware and BIOS modifications, all designed to meet the critical needs of your project.



ADAPTABLE
Agile Solutions & Rapid Response



CUSTOMIZABLE
Easy to Begin, Seamless to Scale



FLEXIBLE
Tailored for Your Vertical Market

AAEON makes your ideas come alive!

AI SOLUTION

AAEON: Shaping the Future of AIoT

A global leader in embedded computing platforms for AIoT, offering cutting-edge, tailored solutions that drive efficiency and innovation for global clients.





BOXER-8651AI/8621AI

AI@Edge Compact Fanless Embedded System | NVIDIA® Jetson Orin™ NX/Orin Nano™ (Super Mode Supported)

- NVIDIA® Jetson Orin™ NX/Orin Nano™ (Super Mode Supported)
- USB 3.2 Gen 2 (Type-A) x 2 & USB 2.0 (Type-A) x 2
- COM/CAN bus/DIO
- Expansion: M.2 2230 E-Key x 1, M.2 3052 B-Key x 1
- Security & Remote-Diagnose Tools



BOXER-8652AI/8622AI

AI@Edge Compact Fanless Embedded System | NVIDIA® Jetson Orin™ NX/Orin Nano™ (Super Mode Supported)

- NVIDIA® Jetson Orin™ NX/Orin Nano™ (Super Mode Supported)
- GbE LAN x 2
- DB-9 x 1 for CAN bus
- M.2 E-Key x 1, M.2 B-Key x 1, M.2 M-Key x 1



BOXER-8653AI/8623AI

AI@Edge Compact Fanless Embedded System | NVIDIA® Jetson Orin™ NX/Orin Nano™ (Super Mode Supported)

- NVIDIA® Jetson Orin™ NX/Orin Nano™ (Super Mode Supported)
- GbE PoE/PSE 802.3af/at x 4 + GbE LAN x 1
- COM/CAN bus/DIO
- M.2 E-Key x 1, M.2 M-Key x 1, M.2 B-Key x 1



BOXER-8655AI

AI@Edge Fanless Embedded System | NVIDIA® Jetson Orin™ NX

- NVIDIA® Jetson Orin™ NX
- GMSL2 with FAKRA Connectors x 8
- GbE LAN x 5
- TPM, 9-Axis sensor and GPS
- 9V~48V DC Input with ACC Ignition Delay On/Off
- Military Standard Vibration and Shock
- E-Mark Certified



BOXER-8658AI

AI@Edge Fanless PoE Embedded System | NVIDIA® Jetson Orin™ NX

- NVIDIA® Jetson Orin™ NX
- PoE/PSE GbE LAN x 8, GbE LAN x 2
- IMU, TPM, GNSS
- 9V~36V DC Input with ACC Ignition Delay On/Off
- Military Standard Vibration and Shock



BOXER-8640AI

AI@Edge Fanless Embedded System | NVIDIA® Jetson AGX Orin™

- NVIDIA® Jetson AGX Orin™
- PoE/PSE 802.3af x 4 (Max. 60W)
- RS-232/422/485 x 1, CAN bus x 1
- 40-pin Header, Mic-in/Line-out
- M.2 2230 E-Key x 1, M.2 2280 M-Key x 1, 2.5" SATA Drive Bay x 1



BOXER-8641AI

AI@Edge Compact Fanless Embedded System | NVIDIA® Jetson AGX Orin™

- NVIDIA® Jetson AGX Orin™
- Multi-storage Option: 64GB eMMC / MicroSD slot / 2.5" SATA drive bay / M.2 2280 M Key
- Support M.2 E Key / M.2 B Key / M.2 M Key
- Support GbE LAN x 2



BOXER-8642AI

AI@Edge Compact Fanless Embedded System | NVIDIA® Jetson AGX Orin™

- NVIDIA® Jetson AGX Orin™
- Independent USB 3.2 Gen 2 (10GB/each) x 8
- Support M.2 E Key / 2.5" SSD
- Support LAN / COM / CAN bus
- 12V~24V DC Input



BOXER-8645AI

AI@Edge Fanless Embedded System | NVIDIA® Jetson AGX Orin™

- NVIDIA® Jetson AGX Orin™
- GMSL2 with FAKRA Connectors x 8
- 10G LAN x 1, GbE LAN x 1
- ACC Ignition Delay On/Off
- Military Standard Vibration and Shock
- E-Mark Certified
- Additional LAN x 8 (By request)



BOXER-8646AI

AI@Edge Fanless PoE Embedded System | NVIDIA® Jetson AGX Orin™ Jetson Orin™ NX

- NVIDIA® Jetson AGX Orin™
- PoE/PSE GbE LAN x 12
- 10G LAN x 1, GbE LAN x 1
- M.2 E-Key/M.2 B-Key/M.2 M-Key
- COM/CAN bus/DIO



BOXER-6843-ADS

Fanless Embedded Controller | 12/13th Generation Intel® Core™/Celeron® Processor G Series (Support NVIDIA L4)

- Intel® Core™ 12/13th Generation
- DDR5 U-DIMM x 4
- HDMI x 2 + DP x 2
- PCIe [x16] + PCIe [x4] or Dual PCIe [x8] + PCIe [x4]
- Supports Dual Graphics Cards with Dual Power Inputs
- Support NVIDIA L4



MAXER-2100

AI Inference Server | 2U Rackmount, Intel® Core™ 12/13th Generation, NVIDIA® RTX 6000 Ada

- High-performance for AI Inference
- Intel® Core™ 12/13th Generation LGA 1700 Socket Processors up to i9-13900K Supported
- 2U Rack Mount, Front Access I/O Design
- M.2 2242/2280 M-Key x 2
- M.2 3042/3052/2242 B-Key + Micro SIM Slot
- M.2 2230 E-Key x 1
- TPM 2.0



MAXER-5100

AI Inference Server | Tower, Intel® Core™ 12/13th Generation

- High-performance for AI inference: Support Intel® Graphics Media Accelerator
- Intel® Core™ 12/13th Generation LGA 1700 Socket Processors
- M.2 2242/2280 M-Key x 2
- M.2 3042/3052 B-Key + Micro SIM Slot
- SATA Drive Bay x 4
- TPM 2.0



SRT-IMX8P

Standard IoT Gateway | ARM i.MX8M Plus Quad-Core Cortex-A53 1.6GHz Processor

- NXP i.MX8M Plus Quad Cortex-A53 1.6 GHz RISC Processor (NPU optional)
- Up to onboard 4GB RAM, eMMC 32GB
- CAN-FD x 2 CH, RS-232/422/485 x 2, TPM 2.0
- Full size mPCIe x 2, Micro SD Card Slot x 1
- 9V~36V DC Input
- Wide Operating Temperature -20°C~70°C
- Pre-Install Linux Debian 11; Support Android 13, Win 10 IoT, Yocto
- Modbus/MQTT Library/OPCUA by request



GENE-MTH6

3.5" SubCompact Board | Intel® Core™ Ultra Processors

- Intel® Core™ Ultra Processors (Series 1)
- DDR5 5600MHz, SODIMM x 2 up to 96GB
- LVDS x 1, eDP x 1, DP x 1, HDMI x 1
- LAN x 3, SATA 6Gb/s x 1, 8-bit GPIO
- USB 3.2 Gen 2 x 2, USB 2.0 x 4
- M.2 2280 M-Key x 1, M.2 3052 B-Key x 1, M.2 2230 E-Key x 1
- 9V~36VDC Input



BOXER-6406U-ADN

Fanless Compact Embedded Computer | Intel® Atom® Processor X-series/N-series

- Intel® Atom® Processor X-series/N-series (Formerly Amston Lake/Alder Lake-N)
- DDR5 4800MHz, SODIMM x 1 up to 32GB
- 2.5GbE x 2, USB 3.2 Gen 2 x 2, USB 2.0 x 2
- RS-232/422/485 x 2, 8-bit DIO x 1, TPM 2.0
- M.2 2280 M-Key x 1, M.2 2230 E-Key x 1
- Wide Operating Temperature -20°C~60°C



BOXER-6617-ADN

Fanless Compact Embedded Computer | Intel® Atom® Processor X-series/N-series/Core™ i3 N-series

- Intel® Atom® Processor X-series/N-series/Core™ i3 N-series (Formerly Amston Lake/Alder Lake-N)
- DDR5 4800MHz, SODIMM x 1 up to 32GB
- 2.5GbE x 2, USB 3.2 Gen 2 x 2, USB 2.0 x 4
- RS-232/422/485 x 6, 8-bit DIO x 1, TPM 2.0
- M.2 2280 M-Key x 1, M.2 2230 E-Key x 1, M.2 3052 B-Key x 1
- 9V~36V DC Input
- Wide Operating Temperature -20°C~70°C



BOXER-6645U-RPL

Fanless Embedded Computer | Intel® Core™ 12/13/14th Generation Socket Processors

- Intel® Core™ 12/13/14th Generation LGA 1700 Socket Processor with Intel® H610E Chipset
- VGA x 1, HDMI x 1, GbE x 2, USB 3.2 Gen 2 x 8
- RS-232/422/485 x 2, RS-232 x 4 (Optional)
- 2.5" HDD/SSD x 1, mSATA x 1 (Optional)
- Supports Intel® vPro™/AMT and TPM
- 9V~36V DC Input
- Wide Operating Temperature -25°C~70°C



BOXER-6647-MTH

Fanless Compact Embedded Computer | Intel® Core™ Ultra Processors

- Intel® Core™ Ultra 5/7 Processor
- DDR5 5600 MT/s, SODIMM x2 up to 64GB
- M.2 2280 NVMe SSD Tray + 2.5" SSD Tray
- M.2 3052 B-Key x 1, M.2 2230 E-Key x 1
- USB 3.2 Gen 2 x 4
- RS-232/422/485 x 2, 8-bit DIO x 1, TPM 2.0
- 9V~36V DC Input
- Wide Operating Temperature -20°C~60°C



BOXER-6843-ADS

Fanless Embedded Controller | 12/13th Generation Intel® Core™/Celeron® Processor G Series (Support NVIDIA L4)

- Intel® Core™ 12/13th Generation
- DDR5 U-DIMM x 4
- HDMI x 2 + DP x 2
- PCIe [x16] + PCIe [x4] or Dual PCIe [x8] + PCIe [x4]
- Supports Dual Graphics Cards with Dual Power Inputs
- Support NVIDIA L4



UP Xtreme ARL Edge

UP Development System | Intel® Core™ Ultra Processor

- Intel® Core™ Ultra 5/7 Processors
- Onboard Dual Channel LPDDR5 6400 up to 64GB
- HDMI x 2, DP 2.1 x 1, DP 1.4 x 1 (Type C)
- 2.5GbE x 1, GbE x 1, TPM 2.0
- USB 3.2 Gen 2 (Type A x 2, Type C x 1)
- M.2 2280 M-Key x 2, M.2 3052 B-Key x 1, M.2 2230 E-Key x 1
- 9V~36V DC Input



UP Xtreme 7100 Edge

UP Development System Designed for Robotics

- Intel® N-series, Core™ i3-N305 Processors
- Anti-vibration Design: Onboard 16GB Memory, 64GB eMMC
- 2.5GbE x 2, USB x 5
- 2-channel CAN 2.0B x 1 Onboard
- RS-232/422/485 x 1, 6-pin GPIO, TPM 2.0
- 24V 8-in/8-out Digital I/O, output 500mA/channel
- High Expandibility: M.2 3052, M.2 2230, M.2 2280
- 9V~36V DC Input, Low Power Consumption
- Fanless Design



UP TWL Edge

UP Development System | Intel® N-series Processor

- Intel® N-series Processor
- Onboard LPDDR5 up to 8GB, eMMC up to 64GB
- HDMI 1.4b x 1
- GbE x 1,
- USB 3.2 Gen 2 x 3, 10-pin USB 2.0 x 2, UART x 1, TPM 2.0
- 12V DC Input



RT-661R

4U Rackmount Industrial Chassis | 7-slot Backplane and ATX Motherboard Support

- Card retainer to hold the card assembly in place
- 120mm front fan with filter for add-on card cooling (Optional 60mm rear fan x 2)
- HDD Bays: 3.5" x 4 + 2.5" x 1 (Internal) or 5.25" x 2 (External) + 3.5" x 1, 2.5" x 1 (Internal)
- Full height expansion 7-slot rear window
- Supports PS/2 Single or Mini-Redundant PSU



Panel PC & Rugged Tablet

Scalable Panel PC | All-In-One Panel PC | Rugged Tablet

- Scalable Panel PC: 10.4"~21.5"
- All-In-One Panel PC: 7" and 10.1"
- Rugged Tablet: 7", 10.1" and 11.6", Windows® 10, Android™ 8.1/11

EMBEDDED SOLUTION

AAEON: Shaping the Future of AIoT

A global leader in embedded computing platforms for AIoT, offering cutting-edge, tailored solutions that drive efficiency and innovation for global clients.





COM-R2KC6

COM Express Type 6 Compact Size | AMD Ryzen™ Embedded R2000 Series Processors

- DDR4 3200MHz SODIMM x 2 up to 32GB
- USB 2.0 x 8, USB 3.2 10Gbps x 2, USB 3.2 5Gbps x 1
- PCIe [x4] x 1, PCIe [x1] x 4, PEG [x4] x 1
- Intel® I226-LM/IT 2.5GbE x 1
- COM Express Type 6, 3.74" x 3.74" (95mm x 95mm)



NANOCOM-RAP

COM Express Type 10 | Intel® Core™ 13th Generation/ U-series Processors

- Onboard LPDDR5 up to 16GB
- Onboard NVMe up to 128GB (Optional)
- eDP x 1, DDI x 1
- USB 2.0 x 8, USB 3.2 Gen 2 x 2
- PCIe [x1] x 4
- Intel® Ethernet Controller I226-V/IT GbE x 1
- COM Express Type 10, 3.31" x 2.17" (84mm x 55mm)



uCOM-ASL

SMARC Module | Intel® Atom® Processor x7000RE Series

- LPDDR5(x) x 1 up to 16GB, eMMC up to 64GB
- DP++ x 2, eDP x 1
- USB 3.2 Gen 2 x 2, USB 2.0 x 6
- PCIe Gen 3 [x1] x 3 (Max PCIe [x2] x 1)
- Intel® Ethernet Controller I226-V/IT x 2
- 5V DC Input
- SMARC Module Size 82mm x 50mm



uCOM-IMX93

SMARC Module | NXP i.MX 93 – Dual-Core Arm® Cortex®-A55 + Arm Cortex®-M33 Processor

- NXP i.MX 93 – Dual-Core Arm® Cortex®-A55 + Arm Cortex®-M33 up to 1.7 GHz
- Onboard LPDDR4 up to 2GB
- HDMI x 1 or MIPI-DSI 4 lane x 1, LVDS x 1
- GbE x 2, TPM 2.0
- USB 2.0 OTG x 1, USB 2.0 HOST x 4
- UART x 4, GPIO x 8, MIPI CSI x 1, CAN-FD x 2



de next-V2K8

86mm x 55mm Single Board | AMD Ryzen™ Embedded V2000 Series Processor

- Onboard AMD Ryzen™ Embedded V2718/V2516 Processor
- Onboard LPDDR4x 3200MHz up to 16GB
- HDMI 1.4b x 1, eDP x 1
- 2.5GbE x 1, GbE x 1
- USB 3.2 Gen 2 x 2, USB 2.0 x 4
- M.2 2280 M-Key x 1 (PCIe [x2]), FPC (PCIe [x4] x 1)
- COM Port x 2, DIO 8-bit, SATA III x 1
- 12V DC Jack Input



PICO-MTU4

Pico-ITX Board | Intel® Core™ Ultra Processors

- Intel® Core™ Ultra 5/7 Ultra Processor
- Onboard LPDDR5 up to 32GB
- 2.5GbE x 1, GbE x 1
- HDMI x 1, eDP x 1
- USB 3.2 Gen 2 x 2, USB 2.0 x 2
- RS-232/422/485 x 2, GPIO 4-bit, SATA 6.0 Gb/s x 1
- TPM 2.0, SMBus/I2C (Default SMBus)
- M.2 2280 M-Key x 1, M.2 2230 E-Key x 1



PICO-V2K4

Pico-ITX Board | AMD RYZEN™ V2000 Embedded Processor Family

- AMD RYZEN™ V2000 Embedded Processor Family (V2718/V2516)
- Onboard LPDDR4x up to 32 GB,
- 2.5GbE x 1, GbE x 1
- HDMI x 2, Type C to DP x 1, LVDS/eDP x 1
- USB 3.2 Gen 2 x 2, USB 3.2 Gen 2 Type C x 1, USB 2.0 x 4
- RS-232/422/485 x 4
- M.2 2280 M key x 1, Full size mPCIe/mSATA x 1



GENE-ASL5

3.5" SubCompact Board | Intel® Atom® Processors x7000RE Series

- Intel® Atom® Processors x7000RE Series
- DDR5 4800MHz, SODIMM x 1 up to 16GB
- LVDS x 1, VGA x 1, HDMI x 1
- 2.5GbE x 2, SATA III x 1, GPIO x 8bit
- USB 3.2 Gen 2 x 2, USB 2.0 x 4
- Full size mPCIe/mSATA
- M.2 3052 B-Key x 1, M.2 2230 E-Key x 1
- 9V~36V DC Input
- Supports WiTAS



GENE-MTH6

3.5" SubCompact Board | Intel® Core™ Ultra Processors

- Intel® Core™ Ultra Processors (Series 1)
- DDR5 5600MHz, SODIMM x 2 up to 96GB
- LVDS x 1, eDP x 1, DP x 1, HDMI x 1
- LAN x 3, SATA 6Gb/s x 1, 8-bit GPIO
- USB 3.2 Gen 2 x 2, USB 2.0 x 4
- M.2 2280 M-Key x 1, M.2 3052 B-Key x 1, M.2 2230 E-Key x 1
- 9V~36VDC Input



EPIC-RPS9

EPIC Board | Intel® Core™ 12/13th Generation Processor

- Intel® Core™ 12/13th Generation Processor
- DDR5 4800MHz, SODIMM x 2 up to 64 GB
- HDMI 2.0 x 1, eDP x 1, VGA x 1
- 2.5GbE x 3, GbE x 1
- USB 3.2 Gen 2 x 2, USB 2.0 x 2 (Pin Header)
- COM Port x 2, GPIO 8-bit
- FPC (PCIe 3.0 [x2] x 1), PCIe 4.0 [x8] x 1
- M.2 2280 M-Key x 1, M.2 3052 B-Key x 1, M.2 2230 E-Key x 1



UP TWL

UP Developer Board | Intel® N-series Processor

- Intel® N-series Processor
- Onboard LPDDR5 up to 8GB, eMMC up to 64GB
- GbE x 1
- HDMI 1.4b x 1
- USB 3.2 Gen 2 x 3, 10-pin USB 2.0 x 2, UART x 1
- 40-pin GPIO x 1, TPM 2.0



UP Squared Pro TWL

UP Developer Board | Intel® N-series Processor

- Intel® N-series and Core™ i3-N355 Processor
- Onboard LPDDR5 up to 16GB, eMMC up to 64GB
- 2.5GbE x 2
- DP 1.2 x 1, DP 1.4a x 1 (Type C), HDMI 2.0b x 1
- USB 3.2 x 3 (Type A x 2, Type C x 1)
- RS232/422/485 Wafer x 2
- 40-pin GPIO x 1, TPM 2.0
- M.2 2230 E-Key x 1, M.2 2280 M-Key x 1, M.2 3052 B-Key x 1



MIX-H610A1

Mini-ITX | Intel® Core™ 12/13/14th Generation LGA 1700 Socket Processor, Max. 65W

- Intel® Core™ 12/13/14th Generation LGA 1700 Processor
- DDR4 DRAM Support, 3200MHz, Max 64GB
- GbE x 1, Realtek RTL8111H x 3
- USB 3.2 x 4, USB 2.0 Port x 4
- SATA 6Gb/s x 2
- M.2 2280 M-Key x 1, M.2 2230 E-Key x 1
- PCIe Gen 4 [x16] x 1



ATX-Q670A

ATX | Intel® Core™ 12/13th Generation LGA 1700 Socket Processors, TDP Max. 125W

- Intel® Core™ 12/13th Generation LGA 1700 Socket Processors
- DDR5 DRAM Support, 4000MHz, Max. 128GB
- HDMI 2.0 x 2, DP x 2, VGA x 1
- GbE x 2
- USB 3.2 Gen 2 x 2, USB 3.2 Gen 1 x 4, USB 2.0 x 3
- SATA x 8, TPM 2.0
- M.2 2280/2242 M-Key x 2, M.2 3042/3052 B-Key x 1, Mini PCIe x 1, Micro SIM Slot x 1
- PCIe Gen 5 [x16] x 1, PCIe Gen 4 [x16] x 1, PCIe Gen 4 [x4] x 1, PCIe Gen 3 [x1] x 1, PCI x 3



SRG-IMX8PL

Standard RISC Gateway | ARM i.MX8M Plus Quad-Core Cortex-A53 1.6GHz Processor

- ARM NXP i.MX8M Plus Quad-Core, Cortex-A53 1.6GHz Processor
- LPDDR4 up to 4 GB, eMMC 5.1 x 1
- HDMI 2.0 x 1
- GbE x 2
- USB 3.0 Gen 1 x 2
- COM x 2, CAN x 2, TPM 2.0
- M.2 2230 E Key x 1, Full-sized minicard x 1