Partner Presentation

Powerful Platform Accelerates Edge AI & Computing

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Opportunities in Edge AI & Computing

in 2025…

- Smart light pole will exceed **3.4 Million** units.
- 45% of public cameras will be edge intelligent.
- 300+ cities will deploy intelligent management systems.
- V2X cars will reach **20%** in China.
- AGV/AMR robots will exceed **400,000** units.
- 70,000 factories will use Edge AI.

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SEAVO - Leading AIoT Computing Platform Provider

- Focus on computing platform for 30 years, since developed the first Intel x86 M/B of Mainland China.
- Developed 700+ different Boards, Systems based on Intel from Atom to Xeon.
- Annual sales 1M+ pcs, holding largest market share in PRC, 10M+ deployed worldwide.
- Serving 100+ industry-leading companies in 10+ AIoT market segments.
- Intel Partner Alliance Titanium Member.

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SEAVO Edge AI & Computing Solution

Computing Platform
- SEAVO AI-BOX
- Intel® Core™ and Celeron® processor

Toolkit
- OpenVINO

AI algorithm
- Feature Recognition
  - instance segmentation
- Target Detection
  - Semantic segmentation
- Image Processing
  - Image Inspection
- Video Classification
  - …..

Target Markets

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SEAVO ADI Edge AI Computing Platform

High Performance

- Based on the latest 12th generation Intel® Core™ processor (codenamed Alder Lake-P), up to 4P+8E cores and 16 threads (TDP 12-28W).
- Support DDR5 memory up to 4800MHz, 2*SO-DIMM up to 64GB.

Optimized AI

- Intel® Iris® Xe Graphics with up to 96EUs available for AI inference.
- Intel® OpenVINO™ Toolkit and VNNI technology to improve AI performance.
SEAVO ADI Edge AI Computing Platform

Rich I/O & Expansion

- 2*Intel 2.5 GbE LAN, 5 USB 3.2 Gen 2, 2*RS232/485/422, 1*SATA 3.0
- 1*DP 1.4a++, 2*DP 1.4a, 1*HDMI 2.1, 1*LVDS
  DP and HDMI up to 7680*4320@30Hz
  Support Quad independent Display
  1*HDMI-IN
- 3*M.2 for Expansion:
  - M.2, Key-E, 2230, support Wifi+BT
  - M.2, Key-B, 2280, support 4G/5G
  - M.2, Key-M, 2280, PCIe x4, support NVMe SSD
  support AI accelerator card based on Intel® Movidius™ Myriad™ X VPU
# SEAVO ADI Mini-ITX SBC

**SV1a-23526**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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<tbody>
<tr>
<td><strong>CPU</strong></td>
<td>12th Gen Intel Core i3/i5/i7 CPU (codenamed Alder Lake -P)</td>
</tr>
<tr>
<td><strong>Memory</strong></td>
<td>DDR5-4800, 2*SO-DIMM, up to 64 GB</td>
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<tr>
<td><strong>Storage</strong></td>
<td>1*SATA 3.0</td>
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| **Expansion** | 1*PCle x4, Gen 4  
  1*M.2 (Key-E, 2230, support Wifi+BT)  
  1*M.2 (Key-B, 2242/3052, support 5G/SATA)  
  1*M.2 (Key-M, 2280, PCle x4 Gen 4) |
| **Display** | 2*HDMI 1.4, 1*eDP/LVDS                             |
| **LAN**     | 2*Intel 2.5GbE LAN                                 |
| **USB**     | 6*USB 3.0, 7*USB 2.0                               |
| **COM**     | 5*RS232, 1*RS232/RS485                            |
| **Others**  | Audio with MIC/ Line-out/ Amplifier, 8*GPIO        |
| **Dimension** | Mini-ITX (170*170mm)                             |

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Vertical Markets of Edge AI

- **Retail**
  - Customer behavior analysis
  - Facial recognition payment
  - Shelf inspection & Inventory management

- **Industrial**
  - Machine vision
  - Product defect detection
  - Equipment anomaly inspection

- **Robotics**
  - Service robots for delivery, cleaning, access control
  - AGVs/AMRs in Production, warehouse and logistics

- **Security**
  - Public surveillance
  - Employee behavior detection
  - Smoke and fire detection

- **Transportation**
  - Autonomous driving, V2X
  - ETC/EPTC car plate detection
  - Smart light pole

- **Healthcare**
  - AI medical imaging diagnosis
  - IVDs, HMI, Intelligent nursing
  - Telemedicine

- **Energy/Agriculture**
  - Power consumption optimize
  - Energy management
  - Smart livestock & agriculture
The “Bright Kitchen” solution is to use AI vision to help restaurant managers better supervise the kitchen and enhance customers' confidence in food safety.
Solution - Robotics/ AMR

With features of high performance, low power, compact design, rich I/O, SEAVO ADI can easily meet the requirements of service robots, AMR in hospitals, restaurants, hotels, factories, etc.
Order SEAVO ADI


Email: yuanzl@seavo.com

Contact with SEAVO and order ADI AI-BOX or SBC.
Thank you for watching!
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