**Product Overview**

The AS-SBC-iMX6 integrated solutions family is designed for embedded systems product developers and OEMs.

Asine’s AS-SBC-iMX6 ARM Cortex A9 based, utilize the rich experience and know-how in the design and implementation of embedded systems and modules, benefiting from the high level system engineering and development capabilities in cooperation with end user's R&D.

Asine's AS-SBC-iMX6 offers 1 GHz per core, proven iMX6 SOC, and wide scalability. Its compatibility with standard ARMv7 CPU power, HardFP, and neon Linux packages means it has the widest support for standard ARM binary software packages without the need to recompile them. Built to comply with commercial, industrial, and Automotive standards of embedding, the AS-SBC is composed of only the highest quality components.

AS-SBC-iMX6 gives engineers a unique set of off-the-shelf design features and benefits enabling: shorter time to market, lower design cost, and reduction in projects’ risks.

**Applications**

- Industrial & Commercial PC/Tablet Systems
- ATM, Gaming, Lottery
- Automotive, Navigation, Infotainment, ECU
- Automotive Data Protection(CANbus)
- Point Of Sale- POS / Kiosk, Smart Terminals
- Medical
- Industrial & Airborne Systems
- Rugged Computer
- High-Speed Data Recording
- Security, HLS-Home Land Security
- Video Surveillance, JPEG2000 Capture
- Factory Automation
- JBOD, NAS, SAN, RAID
- Telecom Interconnect Appliances / Firewall
Features

**Standard I/Fs included at all configurations**

- *SBC i.MX6: Solo, Dual Lite, Dual, Quad core*
- *SOC speed 1GHz (Optional 1.2 GHz)*
- *512MB-2GB DDR3 SDRAM*
- *3X SD/MMC I/F*
- *External storage I/F: NOR-Flash, eMMC*
- *mSATA/SATA2 ((PQ))*
- *microSD*
- *(PQ) & SSD support*
- *LVDs (PQ)*
- *HDMI 1080 W/ CEC 1.4 3D support*
- *1x Ethernet 10/100. 1000 Gbit/s ((PQ))*
- *Second ETH via PCIe / USB*
- *USB: Powered 2X Host & ((PQ)) 2X Internal*
- *OS – Android 4.4.2 or Linux (No Android on Solo), XBMC*
- *Power: Operation 5V. All the I/O is 3.3V signaling*
- *Power: ~1.5 W idle and up to 10 W max (subject to utilized application & cores count)*
- *Processor Optional heat spreader to be considered (consult us)*
- *Operating temperature – Commercial 0°C to +70°C, Industrial -45°C to +95°C, and Optional: Extreme – customizable to accommodate extreme temperatures*
- *Storage temperature -55°C to +100°C*
- *Matching connector: All per it’s standard specifications and header for other I/F’s*
- *Humidity 5% to 95% relative, non-condensing*
- *Altitude (operating & non-operating) 0 to 80,000 feet*
- *Reliability - MTBF - 1,000,000 hours MIL-HDBK271F*
- *Heat dissipation balancing for demanding applications*
- *Sustained environmental: Shock - Half Sine, 40G peak, 11ms; Half Sine, 1500G (3 axes), Vibration - 16.3G RMS (Random, 20Hz to 2000 Hz, 3 vibrations axes)*

**Ordering Information:**  
P/N Structure: ASSBC6[cu]-[Flash][m][DDR][t][f][i][j][custom-suffix]

<table>
<thead>
<tr>
<th>CPU</th>
<th>Flash</th>
<th>m Flash Type</th>
<th>ddr</th>
<th>t – op. temperature</th>
<th>i-coating</th>
<th>Customer Options</th>
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<td>ASSBC6S</td>
<td>Solo 1GHz</td>
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<td>512 MB</td>
<td>0°C to +70°C</td>
<td>F Conformal Coating</td>
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<td>ASSBC6D</td>
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<td>MLC</td>
<td>1 GB</td>
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| Dimensions: 85mm x 56mm | Weight: 50-75gr.(config. dependant) |

The AS-SBC-iMX6 is based on Freescale® i.MX6 family processors ARM Cortex A9 based and supports wide connectivity options like Bluetooth, Wi-Fi, CAN bus, USB, Ethernet, and more. The AS-SBC-iMX6 shows very low power consumption at single board solution for all functions & small physical size (85 X 56 mm) also supporting Automotive grade applications. The AS-SBC-iMX6 is supported by Android and Linux OS, providing all BIOS, OS drivers, APIs for customer’s applications development. The AS-SBC-iMX6 is implemented in demanding industrial applications, proving the "best of the breed".

**Ordering Examples:** *Standard I/Fs included*

- ASSBC6S-0092E0 Single Core 1GHz, no Flash, 512GB DDR, operating ~40°C to +85°C, 10/100M/s ETH
- ASSBC66D-0012E0 Dual 1GHz, 1GB no Flash,