The MaaXBoard is a low-cost, NXP i.MX 8M processor-based, single board computer ideal for embedded computing and smart edge IoT applications. The i.MX 8M family of application processors are based on the Arm® Cortex®-A53 and Cortex-M4 cores which provide industry-leading audio, voice, and video processing for applications that scale from consumer home audio to industrial building automation and embedded computers. The MaaXBoard is production ready, FCC, CE, and RoHS certified. It is available in quantities from one to thousands.

The MaaXBoard contains everything necessary to support and create a Linux, Android, Windows 10 IoT Core, or other OS based system. The platform offers several on-board peripherals including 2 GB of DDR4 memory, a Gigabit Ethernet port, dual USB 3.0 host ports, HDMI output, MIPI-DSI, MIPI-CSI, WiFi, Bluetooth Low Energy, MicroSD card slot, and eMMC storage. A Raspberry Pi hat compatible expansion connector also provides interfaces for UART, SPI, I2C, and GPIO. These combined capabilities make it an ideal platform for investigating AI, IOT, and multimedia applications.

Each MaaXBoard is shipped with a custom passive Heatsink and Quick Start guide to assist developers with getting started on their hardware or software development project. A user supplied 5V/3A USB Type C power supply is required to power the board. A 16 GB microSD card and a HDMI cable is recommended for booting the MaaXBoard and connecting it to a LCD monitor. To jump start your development, Avnet offers supported Android 9.0 and Yocto images available for download. For software debugging, an optional Microchip USB-to-UART evaluation board is recommended, allowing USB terminal access through a UART port on the 40-pin expansion connector.

KIT INCLUDES
- MaaXBoard
- Passive Heatsink
- Quick Start Instructions

TARGET APPLICATIONS
- Embedded Computing
- Machine Vision
- AI platform
- Embedded Kiosk
- Smart IoT Platform

To purchase this kit, visit www.avnet.me/maaxboard
### BLOCK DIAGRAM

**PARTS**

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<th>Part Number</th>
<th>Description</th>
<th>Resale</th>
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<tbody>
<tr>
<td>AES-MC-SBC-IMX8M-G</td>
<td>MaaxBoard i.MX 8M single board computer</td>
<td>$79.95</td>
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**RELATED PARTS**

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<tr>
<td>55Y8325</td>
<td>UART Debug Communication Board</td>
<td>$21.11</td>
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**Countries Available for Purchase:** Americas, EMEA