Arrow SCM Exclusive
SCM-i.MX 6Dual/6Quad

Arrow’s exclusive SCM partnership with NXP has created a new Single Chip System Module (SCM) integrating NXP’s flagship i.MX 6 series applications processors to simplify designing into IoT devices, wearables, and smart-home technology.

The Arrow SCM i.MX 6Dual/6Quad modules contain high-performing applications processors, power management, system passives, and are designed to support zero footprint memory via package-on-package technology. These single chip modules are designed and enabled by expert system designers to maximize your product’s capabilities, simplify your design and optimize your product’s form factor.

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<th>Features</th>
<th>Benefits</th>
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<td>Majority of the components integrated inside the module</td>
<td>Reduce your hardware design time by up to 25% - bring your products to market faster</td>
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<td>Unprecedented, ultra-small form factor (17 x 14 x 1.7mm)</td>
<td>&gt;50% PCB area reduction over comparable discrete solutions</td>
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<td>Enabled for LPDDR2 PoP memory and embedded power management</td>
<td>Reduces your design complexity and cost of integrating and validating DDR memory and power management sub-system</td>
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<td>Complete module with options for HW/SW customization and support</td>
<td>Reduces your supply chain complexity and provides proven options to improve your product time to market</td>
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SCM Technology Inside
SCM
- NXP i.MX 6Dual/6Quad processor based on ARM® Cortex®-A9, operating up to 800 MHz per core
- NXP MMPF0100 for system power management
- 16 MB SPI NOR flash
- Over 100 discrete components

Memory
- Delivered for 2x32-bit 1GByte or 2GByte LPDDR2 Package-on-Package (PoP) memory, 216-ball 0.4mm FBGA

i.MX 6Dual/6Quad features
- CPU Complex: 2-4 ARM® Cortex®-A9, operating up to 800 MHz per core
- Multimedia: 2D/3D GPU, 1080p video encode/decode
- HMI: MIPI display/camera, LVDS, HDMI
- Connectivity: Ethernet, PCIe, SATA, USB 2.0, SD/MMC, audio
- Security: High assurance boot, hardware ciphers, tamper detection

Software
- Linux and Android Board Support Packages (BSPs) are available at www.nxp.com/scm

Package and temperature
- 14mm x 17mm 0.65 pitch FCBGA PoP
- Consumer and industrial products are available
Development Kits and Tool Detail

The NXP Quick Start board for the SCM-i.MX 6Dual/6Quad introduces customers to high-performance processing and showcases the size advantage and design simplification that can be achieved with Single Chip System Modules. This board has many features including a wide variety of on-board interfaces that provide access to many user interface and connectivity options. It is also form-factor compatible with the Arduino™ R3 pin layout. The hardware reference design files together with Linux and Android Board Support Packages (BSPS) are available. The board is populated with the superset SCM-i.MX 6Quad device with 1GByte LPDDR2, which can also be used to evaluate the SCM-i.MX 6Dual device.

Ordering Information

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<tr>
<th>SCM i.MX 6Dual/6Quad Quick Start Board</th>
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<td>Part # OWKS-SCMIMX6DQ</td>
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Quick start board kit contents
- SCM-i.MX 6Quad Quick Start Board
- Power supply
- Quick start guide
- Bootable SD card with Linux image
- 1GB LPDDR2 memory
- Accessory board sold separately

![SCM i.MX 6Dual/6Quad Quick Start Board](image)

Component Datasheets are available on [www.nxp.com/scm](http://www.nxp.com/scm) and [www.micron.com](http://www.micron.com)

For more information

In Person
Please contact your local Arrow account manager or 800-833-3557

Online
[www.arrow.com](http://www.arrow.com)

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