ARM / RISC-based Computing Solutions

for intelligent systems that requires mobility, low-power consumption, cost-effectiveness, small form factor, and wireless connectivity

BCM launches a new motherboard design platform based on the Freescale™ i.MX 6 series providing a highly scalable, low power, and cost effective solution for OEMs

BCM Advanced Research, an industry leader since 1990 in embedded motherboards and intelligent systems, announced the launch of its latest embedded motherboards based on the highly scalable Freescale™ i.MX 6 series. This new motherboard is available as a standard product to OEMs and also serves as a launch pad for BCM's customized ODM design services targeting mid-size and large OEMs requiring a feature specific product based on the i.MX6 technology.

BCM's standard i.MX6 product, the AR6MXS, is a single core, small form factor, single board providing OEMs with excellent off the shelf solution ready for integration into their own products and systems. Additionally, for qualifying ODM customers, the AR6MXS, or quad core version AR6MXQ, provide an ideal platform to test performance and scalability prior to engaging in BCM's quick-turn custom design services for a feature specific product design.

In addition to the common smart phone and tablet products, ARM-based computing devices can be found in a growing number of embedded applications such as set-top-boxes, machine input devices, POS, Kiosk, intelligent machinery, in-vehicle PC, compact digital signage and media players, hand-held game consoles, smart Human Machine Interface (HMI) devices, home automation, and machine-to-machine (M2M) devices, just to name a few. All of the devices mentioned above carry the same feature requirements including compact design, mobility, low power, and fanless operation. These features are delivered by the extraordinary characteristics of the ARM architecture combining low-power consumption and using reduced instruction set processors, yet providing scalability by offering single, dual, or quad core processor options, together enabling ultra small form factor computing design with extremely extended battery life and excellent performance.

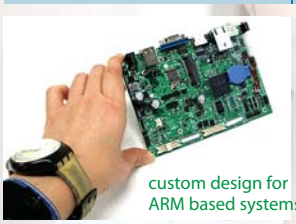
BCM's complete turn-key custom OEM/ODM design services for ARM motherboards and systems provides customers with reduced project risk and lower development costs while accelerating time to market. Our latest ARM products include the AR6MXS, a Freescale® ARM Cortex™-A9 with a single core processor or the AR6MXQ with four cores. BCM also offers a turn-key touch panel PC system , the PPC10W-51MX, based on the Freescale® ARM Cortex™-A8 (i.MX515) platform offering a fanless 10.1 inch touch screen computer running on 12V DC power.

For detailed information please visit our website at www.bcmcom.com/product_industrialMB_ARM_RISC.htm or contact BCMSales@bcmcom.com.

AR6MXQ

AR6MXS

Products Comparison Chart	
Quad Core CPU	Solo Core CPU
1 GB DDR3 onboard	1 GB DDR3 onboard
2 x LVDS	1 x LVDS
1 x MIPI-CSI Camera Interface	1 x MIPI-CSI Camera Interface
1 x HDMI	1 x HDMI
SD/MMC Card Slot	SD/MMC Card Slot
SIM Card Slot	SIM Card Slot
4 x USB + 1 USB DOM	4 x USB + 1 USB DOM
1 x SATA + SATA Power	
1 x MIPI-DSI	



custom design for ARM based systems

10" Fanless All-in-One Panel PC Systems

freescale
i.MX6 Processor Onboard

Supports Linux and Android OS

BCM Advanced Research
A Leading Supplier of Embedded Motherboards and Intelligent Computing Systems

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