

MPUS, APPS PROCESSORS & DEVELOPMENT TOOLS

SITARA ARM CORTEX-A8 PROCESSORS



Features

- Low-cost solutions
- High-level operating systems and RTOS support
- Production-ready reference platforms
- Large 3P ecosystem for support and additional resources
- Comprehensive integration
- Software and hardware enablement
- Advanced 3D graphics acceleration
- Flexible communications interfaces
- Robust display options

Sitara ARM Cortex-A8 processors offer power and cost optimized solutions that go beyond the core, delivering a broad portfolio of ARM Cortex-A8 devices that help innovators create a variety feature-rich, low-power applications. With the ability to scale in speed from 275MHz to 1.35GHz, the ARM Cortex-A8 processor can meet the requirements for power optimized devices with a power budget of less than 300mW and enables performance-optimized consumer applications requiring greater than 2500 Dhrystone MIPS. Compared to the ARM11 core, the Cortex-A8 processor is a dual-issue superscalar, achieving twice the instructions executed per clock cycle at 2 DMIPS/MHz.

Mfg. Part No.	Case Style	No. of Pins	CPU Speed	Supply Voltage	Stock No.	Price Each
● AM3352BZCZ60	NFBGA	324Pins	1GHz	912 mV to 1.144 V	85W3984	---
● AM3352BZCZA100	NFBGA	324Pins	1GHz	912 mV to 1.378 V	73W9675	---
● AM3358BZCZ100	BGA	324Pins	1GHz	912 mV to 1.378 V	73W9711	---
● AM3358BZCZA100	BGA	324Pins	1GHz	912 mV to 1.378 V	73W9709	---
● AM3352BZCE30	NFBGA	298Pins	300MHz	912 mV to 1.144 V	85W3980	---
● AM3352BZCEA30	BGA	298Pins	300MHz	912 mV to 1.144 V	85W3977	---
● AM3352BZCED30	NFBGA	298Pins	300MHz	912 mV to 1.144 V	85W3979	---
● AM3352ZCE50	BGA	298Pins	500MHz	1.71 V to 1.89 V	94T9516	4.18
● AM3352BZCZD60	NFBGA	324Pins	600MHz	912 mV to 1.144 V	73W9676	---
● AM33505AZER	BGA	484Pins	600MHz	1.152 V to 1.248 V	27T6181	---
● AM33505AZERA	BGA	484Pins	600MHz	1.152 V to 1.248 V	27T6182	---
● AM33517AZER	BGA	484Pins	600MHz	1.152 V to 1.248 V	27T6183	---
● AM33517AZERA	BGA	484Pins	600MHz	1.152 V to 1.248 V	27T6184	---
● AM33517AZERC	BGA	484Pins	600MHz	1.152 V to 1.248 V	52T7517	---
● AM33505AZCNA	NFBGA	491Pins	600MHz	1.152 V to 1.248 V	83R9388	---
● AM33505AZCNA	NFBGA	491Pins	600MHz	1.152 V to 1.248 V	83R9389	---
● AM33517AZCNA	NFBGA	491Pins	600MHz	1.152 V to 1.248 V	83R9391	---
● AM33517AZCNA	NFBGA	491Pins	600MHz	1.152 V to 1.248 V	52T7514	---
● AM3354ZCED50	BGA	298Pins	720MHz	1 V to 1.2 V	94T0251	1.72
● AM3354BZCZ80	BGA	324Pins	800MHz	912 mV to 1.326 V	73W9694	---
● AM3354BZCZA80	BGA	324Pins	800MHz	912 mV to 1.326 V	73W9687	---
● AM3354BZCZD80	NFBGA	324Pins	800MHz	912 mV to 1.326 V	73W9690	---
● AM3357BZCZA80	NFBGA	324Pins	800MHz	912 mV to 1.326 V	73W9706	1.93
● AM3359BZCZA80	NFBGA	324Pins	800MHz	912 mV to 1.326 V	85W3986	15.22

PIM_209551

COLDFIRE® 32-BIT EMBEDDED MICROPROCESSORS



The ColdFire 32-Bit Embedded Microprocessors family combines a ColdFire Processor core with several peripheral functions such as a timers, parallel and serial interfaces, and system integration. Designed for embedded control applications, the ColdFire core delivers enhanced performance. The processor performs up to 159 MIPS with Ethernet, USB device, and Encryption features.

ColdFire® V2 Embedded Processors

Connectivity microprocessor offering up to 159 MIPS of performance. Features Ethernet, USB device, and Encryption. Also contains options with dual Ethernet.

MCFS20X: Integrated ColdFire V2 External Memory and Ethernet Microprocessors.

MCFS24X: Integrated ColdFire Version 2 Microprocessor

ColdFire® V3 Embedded Processors

Connectivity microprocessor offering up to 211 MIPS of performance. Features Ethernet, USB host, USB otg, and Encryption.

MCFS30X: Integrated ColdFire V3 Microprocessors.

ColdFire® V4 Embedded Processors

The ColdFire V4 core delivers exceptional performance - more than 500 MIPS - while maintaining a low cost and small size. Upward compatibility from ColdFire V1, V2 and V3 cores provides a smooth roadmap to higher performance designs, giving customers exceptional design flexibility.

MCFS40X: Integrated ColdFire V4 Microprocessors.

MCFS47X: ColdFire V4 Microprocessor with Ethernet and Encryption.

MCFS48X: ColdFire V4e Microcontroller with Ethernet, CAN and Encryption.

Mfg. Part No.	Case Style	No. of Pins	CPU Speed	Supply Voltage	Stock No.	Price Each
● MCF5206ECAB40	QFP	160Pins	40MHz	4.75 V to 5.25 V	25K5853	21.33
● MCF5206EAB54	QFP	160Pins	54MHz	4.75 V to 5.25 V	25K5852	21.34
● MCF5307CAI66B	FQFP	208Pins	66MHz	3 V to 3.6 V	11J9312	---
● MCF5307AI66B	FQFP	208Pins	66MHz	3 V to 3.6 V	11J9310	27.53
● MCF5307AI90B	FQFP	208Pins	90MHz	3 V to 3.6 V	11J9311	34.58

▶ CONTINUED ▶

COLDFIRE® 32-BIT EMBEDDED MICROPROCESSORS (CONT.)

Mfg. Part No.	Case Style	No. of Pins	CPU Speed	Supply Voltage	Stock No.	Price Each
● MCF5249LAG120	LQFP	144Pins	120MHz	1.7 V to 1.9 V	11J9293	---
● MCF5249LCAG120	LQFP	144Pins	120MHz	1.7 V to 1.9 V	11J9294	---
● MCF5407AI162	FQFP	208Pins	162MHz	1.65 V to 3.3 V	11J9313	---
● MCF5407CA162	FQFP	208Pins	162MHz	3 V to 3.6 V	11J9315	---
● MCF5484CZP200	BGA	388Pins	200MHz	3 V to 3.6 V	11J9342	---
● MCF5485CVR200	BGA	388Pins	200MHz	3 V to 3.6 V	11J9343	---
● MCF5484CVR200	BGA	388Pins	200MHz	3 V to 3.6 V	11J9341	---
● MCF5472VR200	BGA	388Pins	200MHz	3 V to 3.6 V	11J9321	---
● MCF5474VR200	BGA	388Pins	200MHz	3 V to 3.6 V	11J9325	---
● MCF5485CZP200	BGA	388Pins	200MHz	3 V to 3.6 V	11J9344	---
● MCF5407AI220	FQFP	208Pins	220MHz	1.65 V to 3.3 V	11J9314	---
● MCF54416CMJ250	MAPBGA	256Pins	250MHz	1.14 V to 1.32 V	87R1023	---
● MCF54417CMJ250	MAPBGA	256Pins	250MHz	1.14 V to 1.32 V	87R1024	---
● MCF54418CMJ250	MAPBGA	256Pins	250MHz	1.14 V to 1.32 V	87R1025	---
● MCF5474VR266	BGA	388Pins	266MHz	3 V to 3.6 V	11J9326	---
● MCF5475VR266	BGA	388Pins	266MHz	3 V to 3.6 V	11J9330	---
● MCF5474ZP266	BGA	388Pins	266MHz	3 V to 3.6 V	11J9328	---
● MCF5475ZP266	TEPBGA	388Pins	266MHz	3 V to 3.6 V	11J9332	---

PIM_113747

i.MX 6 SERIES OF APPLICATION PROCESSORS



The i.MX 6 series of applications processors unleashes a scalable multicore platform that includes single-, dual- and quad-core families based on the ARM® Cortex™-A9 architecture for consumer, industrial and automotive applications. By combining the power-efficient processing capabilities of the ARM Cortex-A9 architecture with 3D and 2D graphics, as well as high-definition video, the i.MX 6 series provides a high level of multimedia performance to enable an unbounded user experience.

MCIMX6L - i.MX 6SoloLite processor

MCIMX6D - i.MX 6Dual processor

MCIMX6Q - i.MX 6Dual processor

MCIMX6S - i.MX 6Solo processor

MCIMX6U - i.MX 6DualLite processor

Part Number Nomenclature (MC IMX6 X X X AA BB X X)	
(MC IMX 6) Qualification level	PC = Prototype Samples ; MC = Mass Production; SC = Special
(X) Part - series	Q = i.MX 6Quad; D = i.MX 6Dual
(X) Part differentiator	7 = Industrial - w/ VPU, GPU, no MLB; 6 = Autom otive - w/ VPU, GPU 5 = Consumer - w/ VPU, GPU; 4 = Autom otive - w/ GPU, no VPU
(X) Temperature Tj	E = Extended Commercial: -20 to + 105°C C = Industrial: -40 to +105°C; A = Autom otive: -40 to +125°C
(AA) Package type	VT = FCPBGA 21x21 0.8mm (lidded) YM = FCPBGA 21x21 0.8mm (non lidded)
(BB) Frequency	08 = 800 MHz (Industrial grade); 08 = 852 MHz (Automotive grade) 10 = 1 GHz; 12 = 1.2 GHz
(X) Fusing	A = Default Setting; C = HDCP Enabled
(X) Silicon revision	C = Rev 1.2; D = Rev 1.3

Mfg. Part No.	Case Style	No. of Pins	CPU Speed	Supply Voltage	Stock No.	Price Each
● MCIMX6L3DVN10AA	MAPBGA	432Pins	1GHz	1.375 V to 1.5 V	31W8709	---
● MCIMX6D5EYM10AC	FCPBGA	624Pins	1GHz	1.35 V to 1.5 V	45W3611	---
● MCIMX6Q5EYM10AC	FCPBGA	624Pins	1GHz	1.35 V to 1.5 V	45W3620	---
● MCIMX6S5DVM10AB	MAPBGA	624Pins	1GHz	1.35 V to 1.5 V	31W8717	---
● MCIMX6U5DVM10AB	MAPBGA	624Pins	1GHz	1.35 V to 1.5 V	31W8724	---
● MCIMX6S5EVM10AB	MAPBGA	624Pins	1GHz	1.35 V to 1.5 V	31W8718	---
● MCIMX6U5EVM10AB	MAPBGA	624Pins	1GHz	1.35 V to 1.5 V	31W8725	---
● MCIMX6D7CVT08AC	FCPBGA	624Pins	800MHz	1.275 V to 1.5 V	45W3615	---
● MCIMX6S7CVM08AB	MAPBGA	624Pins	800MHz	1.275 V to 1.5 V	31W8720	---
● MCIMX6U7CVM08AB	MAPBGA	624Pins	800MHz	1.275 V to 1.5 V	31W8727	---

PIM_208464

PowerQuicc™ II COMMUNICATION PROCESSORS



PowerQuicc™ II series integrates Power Architecture™ technology PowerPC 603e core with system logic required for networking, telecommunications, and wireless infrastructure applications. These processors combine system-level support for industry-standard interfaces with processors that implement the embedded category of the Power Architecture technology.

Part Number Key (MPC 826X A C ZU XXX X)	
MPC	Product Code
826X	Device Number
A	Process Technology (None = 0.29 micron; A = 0.25 micron)
C	Temperature Range ((Blank = 0 to 105 °C; C = -40 to 105 °C)
ZU	Package (ZU = 480 TBGA; VV = 480 TBGA (Pb Free)
XXX	Processor Frequency (CPU/CPM/Bus)
X	Die Revision Level

▶ CONTINUED ▶