



## Final Product Change Notification

201803040F01

**Issue Date:** 17-May-2018  
**Effective Date:** 15-Aug-2018

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# QUALITY

### Management Summary

NXP Semiconductors announces the qualification of epoxy CRM-1076WA/A-B for LQFP package and epoxy CRM-1033BF for SOIC20 package in TFME

#### Change Category

- |  |  |  |   |   |
|--|--|--|---|---|
| <input type="checkbox"/> Wafer Fab Process   | <input type="checkbox"/> Assembly Process              | <input type="checkbox"/> Product Marking           | <input type="checkbox"/> Test Location  | <input type="checkbox"/> Design                         |
| <input type="checkbox"/> Wafer Fab Materials | <input checked="" type="checkbox"/> Assembly Materials | <input type="checkbox"/> Mechanical Specification  | <input type="checkbox"/> Test Process   | <input type="checkbox"/> Errata                         |
| <input type="checkbox"/> Wafer Fab Location  | <input type="checkbox"/> Assembly Location             | <input type="checkbox"/> Packing/Shipping/Labeling | <input type="checkbox"/> Test Equipment | <input type="checkbox"/> Electrical spec./Test coverage |
| <input type="checkbox"/> Firmware            | <input type="checkbox"/> Other                         |  |   |   |

New Die Attach Qualification for LQFP/SOIC20W Package in TongFu Microelectronics Co. LTD

### Description of Change

NXP Semiconductors announces the qualification of epoxy CRM-1076WA/A-B for LQFP package and epoxy CRM-1033BF for SOIC20 package in TongFu Microelectronics Co. LTD, Nantong, China (TFME) Facility.

Corresponding ZVEI Delta Qualification Matrix ID: SEM-PA-07

#### Reason for Change

The new die attach qualification for LQFP/SOIC20W is required for supply assurance.

#### Identification of Affected Products

Product identification does not change

## Product Availability

### Sample Information

Samples are available upon request

### Production

Planned first shipment 15-Aug-2018

## Anticipated Impact on Form, Fit, Function, Reliability or Quality

There is no change to product form, fit, function, or reliability

### Disposition of Old Products

Existing inventory will be shipped until depleted

## Timing and Logistics

In compliance with JEDEC J-STD-046, your acknowledgement of this change is expected by 16-Jun-2018.

## Contact and Support

For all inquiries regarding the ePCN tool application or access issues, please contact NXP "Global Quality Support Team".

For all Quality Notification content inquiries, please contact your local NXP Sales Support team.

For specific questions on this notice or the products affected please contact our specialist directly:

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**Position** Product Engineer  
**e-mail address** W.Chen@nxp.com

At NXP Semiconductors we are constantly striving to improve our product and processes to ensure they reach the highest possible Quality Standards.

Customer Focus, Passion to Win.

NXP Quality Management Team.

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Changed Orderable Part#	Changed Part 12NC	Changed Part Number	Changed Part Description	Package Outline	Package Name	Status	Product Line
MKL25Z128V1H4	935311016557	MKL25Z128V1H4	32 BIT, 128K FLASH		QFP64	RFS	BL Microcontrollers
MKL33Z256V1H4	935311632557	MKL33Z256V1H4	Cortex M0+Core,Flex USB		QFP64	RFS	BL Microcontrollers
MC9S08MP16VLC	935311713557	MC9S08MP16VLC	8 BIT, .25U SGF FLASH		LQFP32	RFS	BL Microcontrollers
MK22FN512V1L12	935312058557	MK22FN512V1L12	32bit MCU 512KB Flash		LQFP100	RFS	BL Microcontrollers
MKE02Z32VLC4R	935312988528	MKE02Z32VLC4R	Kinetis E,32K flash,40Mh		LQFP32	RFS	BL Microcontrollers
MK60DN256ZVLL10	935314631557	MK60DN256ZVLL10	Kinetis 256K USB ENET		LQFP100	RFS	BL Microcontrollers
MKE06Z128VLD4	935314881557	MKE06Z128VLD4	Kinetis MT128		LQFP44	RFS	BL Microcontrollers
MKL26Z64V1H4	935314973557	MKL26Z64V1H4	Cortex M0+ 48 Mhz 64K		QFP64	RFS	BL Microcontrollers
MKL27Z256V1H4	935315379557	MKL27Z256V1H4	Cortex M0+Core,Flex USB		QFP64	RFS	BL Microcontrollers
MKE15Z128V1H7	935316064557	MKE15Z128V1H7	MT256P 64LQFP		QFP64	RFS	BL Microcontrollers
MKM34Z256V1L7	935316071557	MKM34Z256V1L7	KM3x 256 LQFP100		LQFP100	RFS	BL Microcontrollers
MK60FX512V1LQ12	935317615557	MK60FX512V1LQ12	Kinetis 512K Ethnet USB		LQFP144	RFS	BL Microcontrollers
MK20DX256V1LQ10	935317667557	MK20DX256V1LQ10	KINETIS 256K FLEX		LQFP144	RFS	BL Microcontrollers
MK12DX256V1H5	935317695557	MK12DX256V1H5	ARM+256Kb		QFP64	RFS	BL Microcontrollers
MC9S08PA16VLC	935317749557	MC9S08PA16VLC	8 BIT,HCS08L Core, 8k F	SOT358-3	LQFP32	RFS	BL Microcontrollers
MKE02Z16VLC4	935317985557	MKE02Z16VLC4	Kinetis E,32K flash,40Mh		LQFP32	RFS	BL Microcontrollers
MK10DX256V1H7R	935318064528	MK10DX256V1H7R	Kinetis 256K Flex		QFP64	RFS	BL Microcontrollers
MK10DX256V1H7	935318064557	MK10DX256V1H7	Kinetis 256K Flex		QFP64	RFS	BL Microcontrollers
MKE02Z64VLC2	935318442557	MKE02Z64VLC2	Kinetis E,64K flash,20Mh		LQFP32	RFS	BL Microcontrollers
MKV11Z128V1F7	935318651557	MKV11Z128V1F7	Kinetis V 32-bit MCU		LQFP48	RFS	BL Microcontrollers
MC9S08QE128CLD	935319391557	MC9S08QE128CLD	128K FLASH		LQFP44	RFS	BL Microcontrollers
MK12DX128V1H5	935319976557	MK12DX128V1H5	ARM+128Kb		QFP64	RFS	BL Microcontrollers
MK26FN2M0V1LQ18	935320696557	MK26FN2M0V1LQ18	Kinetis K 32-bit MCU		LQFP144	RFS	BL Microcontrollers
MC9S08AW16MFGFE	935321055557	MC9S08AW16MFGFE	8 BIT 16K FLASH 4K RAM		LQFP44	RFS	BL Microcontrollers
MK20DN512ZV1LQ10	935321706557	MK20DN512ZV1LQ10	Kinetis 512K USB		LQFP144	RFS	BL Microcontrollers
MK10DN128V1H5	935321733557	MK10DN128V1H5	Kinetis 128K		QFP64	RFS	BL Microcontrollers
MK10FX512V1LQ12	935321736557	MK10FX512V1LQ12	Kinetis Base 1MB		LQFP144	RFS	BL Microcontrollers
MK20FN1M0V1LQ12	935321743557	MK20FN1M0V1LQ12	Kinetis 1MB USB		LQFP144	RFS	BL Microcontrollers
MKL14Z32V1H4	935321863557	MKL14Z32V1H4	ARM 32BIT, 32K FLASH, 64		QFP64	RFS	BL Microcontrollers
MKE02Z64V1H2	935321944557	MKE02Z64V1H2	Kinetis E,64K flash,20Mh		QFP64	RFS	BL Microcontrollers
MC9S08AC48CFGE	935322848557	MC9S08AC48CFGE	48K FLASH, 2K RAM		LQFP44	RFS	BL Microcontrollers
MK10DX128V1F5	935323268557	MK10DX128V1F5	Kinetis 128K Flex		LQFP48	RFS	BL Microcontrollers
MK60DN512V1L10	935323339557	MK60DN512V1L10	Kinetis 512K enet		LQFP100	RFS	BL Microcontrollers
MKE15Z256V1H7	935324968557	MKE15Z256V1H7	MT256P 64LQFP		QFP64	RFS	BL Microcontrollers
MK22FN1M0AV1LQ12	935324971557	MK22FN1M0AV1LQ12	K20 1MB 120Mhz		LQFP144	RFS	BL Microcontrollers
MKL46Z256V1H4	935325758557	MKL46Z256V1H4	Cortex M0+Core,Flex USB		QFP64	RFS	BL Microcontrollers
MKL33Z128V1H4	935325954557	MKL33Z128V1H4	Cortex M0+Core,Flex USB		QFP64	RFS	BL Microcontrollers
MC9S08AW60CPUE	935309445557	MC9S08AW60CPUE	8 BIT 60K FLASH 4K RAM		QFP64	RFS	BL Microcontrollers
MK30DX256V1L7	935310895557	MK30DX256V1L7	Kinetis 256K SLCD	SOT407-3	LQFP100	RFS	BL Microcontrollers
MK10DX128V1L7	935311062557	MK10DX128V1L7	Kinetis 128K Flex		LQFP100	RFS	BL Microcontrollers
MKM34Z128V1L5	935311105557	MKM34Z128V1L5	Kinetis M0+ 128K 16K RAM		LQFP100	RFS	BL Microcontrollers
MC56F82746V1F	935311192557	MC56F82746V1F	32bit core,64kB Flash		LQFP48	RFS	BL Microcontrollers
MKL16Z64V1H4	935311435557	MKL16Z64V1H4	Cortex M0+Core,Flex USB		QFP64	RFS	BL Microcontrollers
MC56F84763V1H	935311605557	MC56F84763V1H	32bit,128K Flash,2k Fle		QFP64	RFS	BL Microcontrollers
MKV31F128V1L10	935311645557	MKV31F128V1L10	32-bit MCU, 128KB Flash		LQFP100	RFS	BL Microcontrollers
MKE06Z128V1H4	935311879557	MKE06Z128V1H4	Kinetis MT128		QFP64	RFS	BL Microcontrollers
MC9S08AW32CFGE	935313549557	MC9S08AW32CFGE	8 BIT 16K FLASH 4K RAM		LQFP44	RFS	BL Microcontrollers
MK20DX128V1LQ10	935314779557	MK20DX128V1LQ10	KINETIS 128K FLEX		LQFP144	RFS	BL Microcontrollers
MK30DX128V1L7	935314896557	MK30DX128V1L7	Kinetis 128K SLCD		LQFP100	RFS	BL Microcontrollers
MK64FX512V1L12	935315192557	MK64FX512V1L12	K60-1M		LQFP100	RFS	BL Microcontrollers
MK24FN1M0V1LQ12	935315205557	MK24FN1M0V1LQ12	K60-1M		LQFP144	RFS	BL Microcontrollers
MKV10Z64V1H7	935315996557	MKV10Z64V1H7	Kinetis V 32-bit MCU		QFP64	RFS	BL Microcontrollers
MKV58F1M0V1L24	935316425557	MKV58F1M0V1L24	32-bit MCU, ARM Cortex		LQFP100	RFS	BL Microcontrollers
MC9S08QE32CLC	935316984557	MC9S08QE32CLC	9S08QE32-C&I-32LQFP		LQFP32	RFS	BL Microcontrollers
MC9S08AC60CFGE	935316998557	MC9S08AC60CFGE	8 BIT, 60K FLASH, 8K RAM		LQFP44	RFS	BL Microcontrollers
MK20FX512V1LQ12	935317626557	MK20FX512V1LQ12	Kinetis 512K USB		LQFP144	RFS	BL Microcontrollers
MKE02Z64VLC4	935317983557	MKE02Z64VLC4	Kinetis E,64K flash,40Mh		LQFP32	RFS	BL Microcontrollers
MC56F82748V1H	935318054557	MC56F82748V1H	32bit core, 256kB Flash		QFP64	RFS	BL Microcontrollers
MKE04Z64VLD4	935318189557	MKE04Z64VLD4	Kinetis MT64		LQFP44	RFS	BL Microcontrollers
MK60FN1M0V1LQ12	935318272557	MK60FN1M0V1LQ12	Kinetis 1MB Ethnet USB		LQFP144	RFS	BL Microcontrollers
MK22FN512V1H12	935318283557	MK22FN512V1H12	32bit MCU 512KB Flash		QFP64	RFS	BL Microcontrollers
MKV11Z128V1H7	935318485557	MKV11Z128V1H7	Kinetis V 32-bit MCU		QFP64	RFS	BL Microcontrollers
MK10DN512V1L10	935319886557	MK10DN512V1L10	Kinetis 512K		LQFP100	RFS	BL Microcontrollers
MK10DN64V1F5	935319912557	MK10DN64V1F5	Kinetis 64K		LQFP48	RFS	BL Microcontrollers
MK10DX256V1L7	935320073557	MK10DX256V1L7	Kinetis 256K		LQFP100	RFS	BL Microcontrollers
MC9S08PA32VLC	935321744557	MC9S08PA32VLC	8 BIT,HCS08L Core, 32k F		LQFP32	RFS	BL Microcontrollers
MKE15Z256V1L7	935322432557	MKE15Z256V1L7	MT256P 100LQFP		LQFP100	RFS	BL Microcontrollers
MK20DN128V1H5	935323175557	MK20DN128V1H5	Kinetis 128K		QFP64	RFS	BL Microcontrollers
MK20DX128V1L7	935323285557	MK20DX128V1L7	Kinetis 128K Flex		LQFP100	RFS	BL Microcontrollers
MK20DN512V1LQ10	935323298557	MK20DN512V1LQ10	KINETIS 512K		LQFP144	RFS	BL Microcontrollers
MK22FN1M0V1L12	935323356557	MK22FN1M0V1L12	K20 1MB		LQFP100	RFS	BL Microcontrollers
MC56F8245VLD	935323371557	MC56F8245VLD	DSC 44 LQFP 48K FLASH		LQFP44	RFS	BL Microcontrollers

MKE06Z64VLH4	935323429557	MKE06Z64VLH4	Kinetis MT64	QFP64	RFS	BL Microcontrollers
MKL04Z16VLF4	935323576557	MKL04Z16VLF4	ARM M0+ core,16k Flash	LQFP48	RFS	BL Microcontrollers
MC9S08PT60VLC	935324563557	MC9S08PT60VLC	8BIT,HCS08LCORE,60k Flas	LQFP32	RFS	BL Microcontrollers
MC9S08GB32ACFUE	935325213557	MC9S08GB32ACFUE	8 BIT 32K FLASH 4K RAM	QFP64	RFS	BL Microcontrollers
MC9S08JM16CLC	935309857557	MC9S08JM16CLC	8BIT,16K FLASH.1024 RAM	LQFP32	RFS	BL Microcontrollers
MCF51CN128CLH	935310095557	MCF51CN128CLH	LASKO 64LQFP	QFP64	RFS	BL Microcontrollers
MK40DX256VLQ10	935311018557	MK40DX256VLQ10	KINETIS 256KFLEX USB LCD	LQFP144	RFS	BL Microcontrollers
MC9S08PA16VWJ	935311415574	MC9S08PA16VWJ	8 BIT,HCS08L Core, 16k F	SO20	RFS	BL Microcontrollers
MKV30F128VLH10	935311771557	MKV30F128VLH10	KV30F 128L Senna	QFP64	RFS	BL Microcontrollers
MK02FN128VLF10	935312617557	MK02FN128VLF10	KV30F 128L-48LQFP	LQFP48	RFS	BL Microcontrollers
MKE02Z32VLC4	935312988557	MKE02Z32VLC4	Kinetis E,32K flash,40Mh	LQFP32	RFS	BL Microcontrollers
MC9S08AW32CFGER	935313549528	MC9S08AW32CFGER	8 BIT 16K FLASH 4K RAM	LQFP44	RFS	BL Microcontrollers
MK10DN32VLF5	935314735557	MK10DN32VLF5	Kinetis 32K	LQFP48	RFS	BL Microcontrollers
MKM33Z64ACLH5	935315657557	MKM33Z64ACLH5	Kinetis M0+ 64K	QFP64	RFS	BL Microcontrollers
MKL36Z128VLL4	935316134557	MKL36Z128VLL4	Cortex M0+Core,Flex USB	LQFP100	RFS	BL Microcontrollers
MC9S08GB60ACFUE	935316655557	MC9S08GB60ACFUE	8BIT 60K FLASH 4K RAM	QFP64	RFS	BL Microcontrollers
MC9S08QE32CLCR	935316984528	MC9S08QE32CLCR	9S08QE32-C&I-32LQFP	LQFP32	RFS	BL Microcontrollers
MK60FX512VQL15	935317611557	MK60FX512VQL15	Kinetis 512K Ethnet USB	LQFP144	RFS	BL Microcontrollers
MC9S6F84452VLLH	935317623557	MC9S6F84452VLLH	32bit,96k Flash,2kB Fle	QFP64	RFS	BL Microcontrollers
MK10DX32VHL5	935317634557	MK10DX32VHL5	Kinetis 32K Flex	QFP64	RFS	BL Microcontrollers
MK22DX128VLF5	935317697557	MK22DX128VLF5	ARM+128Kb +USB	LQFP48	RFS	BL Microcontrollers
MKE02Z64VLD2	935317775557	MKE02Z64VLD2	Kinetis E,64K flash,20Mh	LQFP44	RFS	BL Microcontrollers
MKL05Z32VLF4	935317844557	MKL05Z32VLF4	ARM M0+ core,32k Flash	LQFP48	RFS	BL Microcontrollers
MKM33Z128CLH5	935317874557	MKM33Z128CLH5	Kinetis M0+ 128K 16K RAM	QFP64	RFS	BL Microcontrollers
MKV42F128VHLH16	935318499557	MKV42F128VHLH16	Kinetis V 32-bit MCU 128	QFP64	RFS	BL Microcontrollers
MC9S08AC32CPUE	935319422557	MC9S08AC32CPUE	8 BIT, 32K FLASH, 8K RAM	QFP64	RFS	BL Microcontrollers
MK10DX256ZVLQ10	935319788557	MK10DX256ZVLQ10	Kinetis 256Kflex	LQFP144	RFS	BL Microcontrollers
MKL36Z256VLLH4	935320014557	MKL36Z256VLLH4	Cortex M0+Core,Flex USB	QFP64	RFS	BL Microcontrollers
MC9S08PT32VLC	935320045557	MC9S08PT32VLC	8 BIT,HCS08L Core, 32k F	LQFP32	RFS	BL Microcontrollers
MKE04Z128VLLK4	935320237557	MKE04Z128VLLK4	Kinetis MT128	LQFP80	RFS	BL Microcontrollers
MKV31F128VHL10P	935320814557	MKV31F128VHL10P	KV31F 128K ReadyPlay	QFP64	RFS	BL Microcontrollers
MC9S08AC32CFGER	935321311528	MC9S08AC32CFGER	8 BIT, 32K FLASH, 8K RAM	LQFP44	RFS	BL Microcontrollers
MKL15Z128VLLH4	935321764557	MKL15Z128VLLH4	32 BIT,ARM M0+ core,128K	QFP64	RFS	BL Microcontrollers
MK22FN1M0AVLL12	935322249557	MK22FN1M0AVLL12	K20 1MB	LQFP100	RFS	BL Microcontrollers
MK22FN1M0AVLH12	935322302557	MK22FN1M0AVLH12	K20 1MB 120Mhz	QFP64	RFS	BL Microcontrollers
MC9S08PA32VLD	935324751557	MC9S08PA32VLD	8BIT,HCS08LCORE,32k Flas	LQFP44	RFS	BL Microcontrollers
MK10DX128VHL7	935324888557	MK10DX128VHL7	Kinetis 128K Flex	QFP64	RFS	BL Microcontrollers
MK10DN512ZVLL10	935325624557	MK10DN512ZVLL10	Kinetis 512K	LQFP100	RFS	BL Microcontrollers
MCF51JF128VLLH	935310891557	MCF51JF128VLLH	ColdFire V1, 128K Flash	QFP64	RFS	BL Microcontrollers
MC9S08PT60VLC	935311008557	MC9S08PT60VLC	8BIT,HCS08LCORE,60k Flas	QFP64	RFS	BL Microcontrollers
MKE02Z32VLLH4	935311558557	MKE02Z32VLLH4	Kinetis E,32K flash,40Mh	QFP64	RFS	BL Microcontrollers
MKL04Z32VLC4	935311626557	MKL04Z32VLC4	ARM M0+ core,32K Flash	LQFP32	RFS	BL Microcontrollers
MC9S08PT32AVLH	935311687557	MC9S08PT32AVLH	8BIT,HCS08LCORE,32k Flas	QFP64	RFS	BL Microcontrollers
MKL04Z8VLC4	935312403557	MKL04Z8VLC4	ARM M0+ core,8k Flash	LQFP32	RFS	BL Microcontrollers
MK80FN1256VLL15	935312447557	MK80FN1256VLL15	K80-256	LQFP100	RFS	BL Microcontrollers
MC9S08AW32CPUE	935313552557	MC9S08AW32CPUE	8 BIT 32K FLASH 4K RAM C	QFP64	RFS	BL Microcontrollers
MC9S08LL36CLH	935314104557	MC9S08LL36CLH	S08 CPU,36K Flash 64LQFP	QFP64	RFS	BL Microcontrollers
MC9S6F8257MLH	935314294557	MC9S6F8257MLH	DSC 64 LQFP 64K FLASH	QFP64	RFS	BL Microcontrollers
MC9S08PA8VLC	935314867557	MC9S08PA8VLC	8 BIT,HCS08L Core, 8k F	LQFP32	RFS	BL Microcontrollers
MK21FX512VQL12	935315086557	MK21FX512VQL12	K20 1MB 120Mhz	LQFP144	RFS	BL Microcontrollers
MK64FN1M0VLL12	935315207557	MK64FN1M0VLL12	K60-1M	LQFP100	RFS	BL Microcontrollers
MKE06Z64VLLK4	935315509557	MKE06Z64VLLK4	Kinetis MT64	LQFP80	RFS	BL Microcontrollers
MK02FN64VLF10	935315933557	MK02FN64VLF10	KV30F 128L-48LQFP	LQFP48	RFS	BL Microcontrollers
MK10DX128VLLQ10	935317671557	MK10DX128VLLQ10	KINETIS 128K FLEX	LQFP144	RFS	BL Microcontrollers
MC9S08PA4VWJ	935317879574	MC9S08PA4VWJ	8 BIT,low end Core,4k FI	SO20	RFS	BL Microcontrollers
MK22FN512VLLH12R	935318283528	MK22FN512VLLH12R	32bit MCU 512KB Flash	QFP64	RFS	BL Microcontrollers
MKL17Z256VLLH4	935318318557	MKL17Z256VLLH4	Cortex M0+Core,Flex USB	QFP64	RFS	BL Microcontrollers
MC9S08PA32AVLH	935318427557	MC9S08PA32AVLH	8 BIT,HCS08L Core, 32k F	QFP64	RFS	BL Microcontrollers
MKV44F64VLLH16	935318711557	MKV44F64VLLH16	Kinetis V 32-bit MCU 64	QFP64	RFS	BL Microcontrollers
MC9S08QE8CLC	935319077557	MC9S08QE8CLC	8 BIT, 8K FLASH	LQFP32	RFS	BL Microcontrollers
MKL25Z64VLLH4	935320016557	MKL25Z64VLLH4	32 BIT, 64K FLASH	QFP64	RFS	BL Microcontrollers
MKE02Z16VLD2	935320029557	MKE02Z16VLD2	Kinetis E,32K flash,20Mh	LQFP44	RFS	BL Microcontrollers
MKL16Z32VLLH4	935320159557	MKL16Z32VLLH4	Cortex M0+ 48 Mhz 32K	QFP64	RFS	BL Microcontrollers
MKV31F512VLLH12	935320261557	MKV31F512VLLH12	32bit MCU 512KB Flash	QFP64	RFS	BL Microcontrollers
MK22FN1M0VLLQ12	935320787557	MK22FN1M0VLLQ12	K20 1MB 120Mhz	LQFP144	RFS	BL Microcontrollers
MKL15Z128VLLH4R	935321764528	MKL15Z128VLLH4R	32 BIT,ARM M0+ core,128K	QFP64	RFS	BL Microcontrollers
MKL36Z64VLLH4	935322124557	MKL36Z64VLLH4	Cortex M0+Core,Flex USB	QFP64	RFS	BL Microcontrollers
MKL27Z128VLLH4	935322209557	MKL27Z128VLLH4	Cortex M0+Core,Flex USB	QFP64	RFS	BL Microcontrollers
MC9S08PA16AVLD	935323639557	MC9S08PA16AVLD	8 BIT,HCS08L Core, 16k F	LQFP44	RFS	BL Microcontrollers
MK20DX128VLLH5	935324476557	MK20DX128VLLH5	Kinetis 128K Flex	QFP64	RFS	BL Microcontrollers
MK60DX256VLLQ10	935324544557	MK60DX256VLLQ10	KINETIS 256K FLEX ENET	LQFP144	RFS	BL Microcontrollers
MK22FN128VLL10	935324748557	MK22FN128VLL10	K22F 128R Senna	LQFP100	RFS	BL Microcontrollers
MCF51JU128VLLH	935325645557	MCF51JU128VLLH	ColdFire V1, 128K Flash	QFP64	RFS	BL Microcontrollers

MC9S08PT32VLD	935325668557	MC9S08PT32VLD	8BIT,HCS08LCore,32k Flas	LQFP44	RFS	BL Microcontrollers
MK82FN256VLL15	935325966557	MK82FN256VLL15	K82-256	LQFP100	RFS	BL Microcontrollers
MC9S08JM32CLD	935309934557	MC9S08JM32CLD	9S08JM32 44LQFP FG	LQFP44	RFS	BL Microcontrollers
MK20DX128VLF5	935311001557	MK20DX128VLF5	Kinetis 128K Flex	LQFP48	RFS	BL Microcontrollers
MKE02Z32VLD4	935311563557	MKE02Z32VLD4	Kinetis E,32K flash,40Mh	LQFP44	RFS	BL Microcontrollers
MK20DX256VLL10	935311568557	MK20DX256VLL10	Kinetis 512K	LQFP100	RFS	BL Microcontrollers
MKE06Z64VLD4	935311823557	MKE06Z64VLD4	Kinetis MT64	LQFP44	RFS	BL Microcontrollers
MKE04Z64VLH4	935311826557	MKE04Z64VLH4	Kinetis MT64	QFP64	RFS	BL Microcontrollers
MKE18F512VLH16	935312623557	MKE18F512VLH16	MT512P 64LQFP	QFP64	RFS	BL Microcontrollers
MC9S08AW16CFGER	935313519528	MC9S08AW16CFGER	8 BIT 16K FLASH 4K RAM	LQFP44	RFS	BL Microcontrollers
MC9S08AW16CFGE	935313519557	MC9S08AW16CFGE	8 BIT 16K FLASH 4K RAM	LQFP44	RFS	BL Microcontrollers
MKL26Z128VLL4	935315073557	MKL26Z128VLL4	Cortex M0+Core,Flex USB	LQFP100	RFS	BL Microcontrollers
MKE04Z128VLD4	935315108557	MKE04Z128VLD4	Kinetis MT128	LQFP44	RFS	BL Microcontrollers
MKV31F256VLL12	935315521557	MKV31F256VLL12	32Bit MCU 256KB Flash	LQFP100	RFS	BL Microcontrollers
MC9S08QE4CLC	935317002557	MC9S08QE4CLC	4KB FLASH; 512 RAM	LQFP32	RFS	BL Microcontrollers
MK20DN512VLL10	935317684557	MK20DN512VLL10	Kinetis 512K	LQFP100	RFS	BL Microcontrollers
MKE04Z8VWJ4	935317919574	MKE04Z8VWJ4	M0 + 8K Flash 48Mhz	SO20	RFS	BL Microcontrollers
MKV10Z64VLF7	935318582557	MKV10Z64VLF7	Kinetis V 32-bit MCU	LQFP48	RFS	BL Microcontrollers
MC9S08AC48CPUE	935319423557	MC9S08AC48CPUE	8 BIT, 48K FLASH, 8K RAM	QFP64	RFS	BL Microcontrollers
MK10DX128VLH5	935319796557	MK10DX128VLH5	Kinetis 128K	QFP64	RFS	BL Microcontrollers
MK53DN512ZCLQ10	935319842557	MK53DN512ZCLQ10	KINETIS 512K SLCD+Ethernet	LQFP144	RFS	BL Microcontrollers
MK30DX64VLH7	935319907557	MK30DX64VLH7	Kinetis 64KFlex	QFP64	RFS	BL Microcontrollers
MKE04Z128VLH4	935320756557	MKE04Z128VLH4	Kinetis MT128	QFP64	RFS	BL Microcontrollers
MK10DN64VLH5	935321741557	MK10DN64VLH5	Kinetis 64K	QFP64	RFS	BL Microcontrollers
MKL36Z128VLH4	935321825557	MKL36Z128VLH4	Cortex M0+Core,Flex USB	QFP64	RFS	BL Microcontrollers
MK21FX512AVLQ12	935322198557	MK21FX512AVLQ12	K20 1MB 120Mhz	LQFP144	RFS	BL Microcontrollers
MKL17Z128VLH4	935322251557	MKL17Z128VLH4	Cortex M0+Core,Flex USB	QFP64	RFS	BL Microcontrollers
MC9S08LC36LH	935322629557	MC9S08LC36LH	8 BIT, 36K FLASH-LOW VOL	QFP64	DOD	BL Microcontrollers
MC9S08AW60CFGE	935322654557	MC9S08AW60CFGE	8 BIT 60K FLASH 4K RAM	LQFP44	RFS	BL Microcontrollers
MK60DN512ZVLL10	935323171557	MK60DN512ZVLL10	Kinetis 512K USB ENET	LQFP100	RFS	BL Microcontrollers
MK10DN512VLQ10	935324542557	MK10DN512VLQ10	Kinetis 512K	LQFP144	RFS	BL Microcontrollers
MKE02Z16VLD4	935324724557	MKE02Z16VLD4	Kinetis E,32K flash,40Mh	LQFP44	RFS	BL Microcontrollers
MK22FN256VLL12	935324736557	MK22FN256VLL12	32bit MCU 256KB Flash	LQFP100	RFS	BL Microcontrollers
MKV42F64VLH16	935325003557	MKV42F64VLH16	Kinetis V 32-bit MCU 64	QFP64	RFS	BL Microcontrollers
MK60DX256VLL10	935325655557	MK60DX256VLL10	Kinetis 256K Flex Enet	LQFP100	RFS	BL Microcontrollers
MK22FN1M0VLLH12	935325747557	MK22FN1M0VLLH12	K20 1MB 120Mhz	QFP64	RFS	BL Microcontrollers
MKV30F128VLF10P	935325999557	MKV30F128VLF10P	KV30F 128K ReadyPlay	LQFP48	RFS	BL Microcontrollers
MC9S08MP16VLF	935310154557	MC9S08MP16VLF	8 BIT, .25U SGF FLASH	LQFP48	RFS	BL Microcontrollers
MC56F82743VLC	935311194557	MC56F82743VLC	32bit core,64kB Flash	LQFP32	RFS	BL Microcontrollers
MKL16Z128VLH4	935311433557	MKL16Z128VLH4	Cortex M0+Core,Flex USB	QFP64	RFS	BL Microcontrollers
MKV46F256VLL16	935312573557	MKV46F256VLL16	KinetisV 32Bit MCU 256KB	LQFP100	RFS	BL Microcontrollers
MKL8Z2128VLK7	935312957557	MKL8Z2128VLK7	KL80 80LQFP	LQFP80	RFS	BL Microcontrollers
MKM34Z128ACL5	935313031557	MKM34Z128ACL5	Kinetis M0+ 128K 16K RAM	LQFP100	RFS	BL Microcontrollers
MC56F8257VHL	935314406557	MC56F8257VHL	DSC 64 LQFP 64K FLASH	QFP64	RFS	BL Microcontrollers
MKE06Z128VLK4	935315176557	MKE06Z128VLK4	Kinetis MT128	LQFP80	RFS	BL Microcontrollers
MK24FN1M0VLL12	935315193557	MK24FN1M0VLL12	K60-1M	LQFP100	RFS	BL Microcontrollers
MKV31F128VLH10	935315348557	MKV31F128VLH10	32-bit MCU, 128KB Flash	QFP64	RFS	BL Microcontrollers
MKL3Z264VLH4	935315478557	MKL3Z264VLH4	Kinetis 48Mhz, LQFP 64	QFP64	RFS	BL Microcontrollers
MK81FN256VLL15	935316085557	MK81FN256VLL15	K80-256	LQFP100	RFS	BL Microcontrollers
MC9S08JM60CLD	935316389557	MC9S08JM60CLD	9S08JM60 44LQFP FG	LQFP44	RFS	BL Microcontrollers
MC9S08QE16CLC	935316983557	MC9S08QE16CLC	9S08QE16 C&I-32LQFP	LQFP32	RFS	BL Microcontrollers
MKL43Z256VLH4	935318116557	MKL43Z256VLH4	Cortex M0+Core,Flex USB	QFP64	RFS	BL Microcontrollers
MKL46Z256VLL4	935320037557	MKL46Z256VLL4	Cortex M0+Core,Flex USB	LQFP100	RFS	BL Microcontrollers
MK22FN128VLH10	935320318557	MK22FN128VLH10	K22F 128R Senna	QFP64	RFS	BL Microcontrollers
MC9S08AC32CFGE	935321311557	MC9S08AC32CFGE	8 BIT, 32K FLASH, 8K RAM	LQFP44	RFS	BL Microcontrollers
MC56F8255VLD	935321557557	MC56F8255VLD	DSC 44 LQFP 64K FLASH	LQFP44	RFS	BL Microcontrollers
MK20DX256VLL7	935321716557	MK20DX256VLL7	Kinetis 256K USB	LQFP100	RFS	BL Microcontrollers
MK60DN512VLQ10	935321729557	MK60DN512VLQ10	Kinetis 512K enet	LQFP144	RFS	BL Microcontrollers
MK60DN256VLL10	935321786557	MK60DN256VLL10	Kinetis 256K	LQFP100	RFS	BL Microcontrollers
MKL46Z128VLL4	935321829557	MKL46Z128VLL4	Cortex M0+Core,Flex USB	LQFP100	RFS	BL Microcontrollers
MC9S08MM128CLK	935323005557	MC9S08MM128CLK	8BIT 128K FLASH	LQFP80	RFS	BL Microcontrollers
MC9S08PA32VHL	935323277557	MC9S08PA32VHL	8 BIT,HCS08L Core, 32K F	QFP64	RFS	BL Microcontrollers
MKL26Z256VLH4	935323344557	MKL26Z256VLH4	Cortex M0+Core,Flex USB	QFP64	RFS	BL Microcontrollers
MKL26Z128VLH4	935323352557	MKL26Z128VLH4	Cortex M0+ 48 Mhz 128K F	QFP64	RFS	BL Microcontrollers
MKE14F512VLL16	935323688557	MKE14F512VLL16	MT512P 100LQFP	LQFP100	RFS	BL Microcontrollers
MKL28Z512VLL7	935323725557	MKL28Z512VLL7	32-bit MCU, 512KB Flash	LQFP100	RFS	BL Microcontrollers
MK10DX64VLH5	935324527557	MK10DX64VLH5	Kinetis 64K Flex	QFP64	RFS	BL Microcontrollers
MK20DX128VLH7	935324556557	MK20DX128VLH7	Kinetis 64K Flex	QFP64	RFS	BL Microcontrollers
MKL14Z64VLH4	935324634557	MKL14Z64VLH4	ARM 32BIT, 64K FLASH, 64	QFP64	RFS	BL Microcontrollers
MC9S08PT60VLD	935325675557	MC9S08PT60VLD	8BIT,HCS08LCore,60k Flas	LQFP44	RFS	BL Microcontrollers
MK22DX256VLF5	935325699557	MK22DX256VLF5	ARM+256kb +USB	LQFP48	RFS	BL Microcontrollers
MK10DN128VLF5	935311038557	MK10DN128VLF5	Kinetis 128K	LQFP48	RFS	BL Microcontrollers
MKV46F256VLH16	935312559557	MKV46F256VLH16	Kinetis V 32-bit MCU 256	QFP64	RFS	BL Microcontrollers

MK22DX256VLH5	935314823557	MK22DX256VLH5	ARM+256Kb +USB	QFP64	RFS	BL Microcontrollers
MKE02Z64VLD4	935314938557	MKE02Z64VLD4	Kinetis E,64K flash,40Mh	LQFP44	RFS	BL Microcontrollers
MKE04Z64VLK4	935315282557	MKE04Z64VLK4	Kinetis MT64	LQFP80	RFS	BL Microcontrollers
MKE02Z32VLC2	935315854557	MKE02Z32VLC2	Kinetis E,32K flash,20Mh	LQFP32	RFS	BL Microcontrollers
MKL05Z32VLC4	935316072557	MKL05Z32VLC4	ARM M0+ core,32K Flash	LQFP32	RFS	BL Microcontrollers
MK10FN1M0VLQ12	935317613557	MK10FN1M0VLQ12	Kinetis Base 1MB	LQFP144	RFS	BL Microcontrollers
MKL04Z32VLF4	935317933557	MKL04Z32VLF4	ARM M0+ core,16k Flash	LQFP48	RFS	BL Microcontrollers
MK40DN512VLL10	935319895557	MK40DN512VLL10	Kinetis 512K USB LCD	LQFP100	RFS	BL Microcontrollers
MK53DN512CLQ10	935319956557	MK53DN512CLQ10	KINETIS 512K	LQFP144	RFS	BL Microcontrollers
MK22DX128VLH5	935319962557	MK22DX128VLH5	ARM+128Kb +USB	QFP64	RFS	BL Microcontrollers
MC56F8006VLC	935321384557	MC56F8006VLC	DSC 32LQFP 16K Flash	LQFP32	RFS	BL Microcontrollers
MK20DX256VLH7	935321664557	MK20DX256VLH7	Kinetis 256K	QFP64	RFS	BL Microcontrollers
MK12DX128VLF5	935321769557	MK12DX128VLF5	ARM+128Kb	LQFP48	RFS	BL Microcontrollers
MK66FN2M0VLQ18	935322446557	MK66FN2M0VLQ18	Kinetis K 32-bit MCU	LQFP144	RFS	BL Microcontrollers
MK60FN1M0VLQ15	935323254557	MK60FN1M0VLQ15	Kinetis 1MB Ethernet USB	LQFP144	RFS	BL Microcontrollers
MK40DN512VLQ10	935323263557	MK40DN512VLQ10	Kinetis 512K USB LCD	LQFP144	RFS	BL Microcontrollers
MK64FN1M0VLQ12	935324728557	MK64FN1M0VLQ12	K60-1M	LQFP144	RFS	BL Microcontrollers
MK02FN128VLH10	935324768557	MK02FN128VLH10	K02 128L Senna-64LQFP	QFP64	RFS	BL Microcontrollers
MC9508QE32CLD	935325408557	MC9508QE32CLD	9508QE32-C&I-44LQFP	LQFP44	RFS	BL Microcontrollers
MK10DX64VLH7	935325669557	MK10DX64VLH7	Kinetis 64K Flex	QFP64	RFS	BL Microcontrollers
MC9508PA60VLH	935325674557	MC9508PA60VLH	8BIT,HCS08LCore,60k Flas	QFP64	RFS	BL Microcontrollers
MC9508AC60CPUE	935309945557	MC9508AC60CPUE	8 BIT, 60K FLASH, 8K RAM	QFP64	RFS	BL Microcontrollers
MC9508LL16CLH	935310013557	MC9508LL16CLH	8BIT, 16KFLASH, 2KRAM	QFP64	RFS	BL Microcontrollers
MK60DN512ZVLQ10	935310931557	MK60DN512ZVLQ10	Kinetis 512K enet	LQFP144	RFS	BL Microcontrollers
MC9508PA60VLF	935311053528	MC9508PA60VLF	8BIT,HCS08LCore,60k Flas	LQFP48	RFS	BL Microcontrollers
MKV10Z32VLF7	935311418557	MKV10Z32VLF7	Cortex M0 Torq Cu 48LQFP	LQFP48	RFS	BL Microcontrollers
MK22FX512AVLH12	935312548557	MK22FX512AVLH12	K20 1MB 120Mhz	QFP64	RFS	BL Microcontrollers
MK22FX512VLQ12	935312994557	MK22FX512VLQ12	K20 1MB 120Mhz	LQFP144	RFS	BL Microcontrollers
MC9508AC16CFGE	935313901557	MC9508AC16CFGE	8 BIT 16K FLASH 4K RAM	LQFP44	RFS	BL Microcontrollers
MKE02Z16VLC2	935314848557	MKE02Z16VLC2	Kinetis E,32K flash,20Mh	LQFP32	RFS	BL Microcontrollers
MKL26Z256VLL4	935314971557	MKL26Z256VLL4	Cortex M0+Core,Flex USB	LQFP100	RFS	BL Microcontrollers
MK64FX512VLQ12	935315204557	MK64FX512VLQ12	K60-1M	LQFP144	RFS	BL Microcontrollers
MKL16Z256VLH4	935316152557	MKL16Z256VLH4	Cortex M0+Core,Flex USB	QFP64	RFS	BL Microcontrollers
MKV58F1M0VLQ24	935316348557	MKV58F1M0VLQ24	32-bit MCU, ARM Cortex	LQFP144	RFS	BL Microcontrollers
MK20DN512ZVLL10	935317484557	MK20DN512ZVLL10	Kinetis 512K USB	LQFP100	RFS	BL Microcontrollers
MK51DN512CLL10	935317609557	MK51DN512CLL10	Kinetis 512K USB	LQFP100	RFS	BL Microcontrollers
MKE04Z8VWJ4R	935317919518	MKE04Z8VWJ4R	M0 + 8K Flash 48Mhz	SO20	RFS	BL Microcontrollers
MKE02Z64VLH4	935318162557	MKE02Z64VLH4	Kinetis E,64K flash,40Mh	QFP64	RFS	BL Microcontrollers
MK22FX512AVL12	935318638557	MK22FX512AVL12	K20 1MB	LQFP100	RFS	BL Microcontrollers
MKE18F512VLL16	935318789557	MKE18F512VLL16	MT512P 100LQFP	LQFP100	RFS	BL Microcontrollers
MK52DN512CLQ10	935319948557	MK52DN512CLQ10	KINETIS 512K	LQFP144	RFS	BL Microcontrollers
MK21FN1M0VLQ12	935320049557	MK21FN1M0VLQ12	K20 1MB 120Mhz	LQFP144	RFS	BL Microcontrollers
MKL24Z64VLH4	935320051557	MKL24Z64VLH4	ARM 32BIT, 64K FLASH, 64	QFP64	RFS	BL Microcontrollers
MKV31F512VLL12	935320286557	MKV31F512VLL12	32Bit MCU 512KB Flash	LQFP100	RFS	BL Microcontrollers
MKV31F256VLH12	935320338557	MKV31F256VLH12	32bit MCU 256KB Flash	QFP64	RFS	BL Microcontrollers
MK66FX1M0VLQ18	935320739557	MK66FX1M0VLQ18	Kinetis K 32-bit MCU	LQFP144	RFS	BL Microcontrollers
MK22FX512VLH12	935321867557	MK22FX512VLH12	K20 1MB 120Mhz	QFP64	RFS	BL Microcontrollers
MK02FN64VLH10	935322162557	MK02FN64VLH10	K02 128L Senna-64LQFP	QFP64	RFS	BL Microcontrollers
MK12DX256VLF5	935323299557	MK12DX256VLF5	ARM+256Kb	LQFP48	RFS	BL Microcontrollers
MK22FX512AVLQ12	935323693557	MK22FX512AVLQ12	K20 1MB 120Mhz	LQFP144	RFS	BL Microcontrollers
MC9508JM60CLH	935324187557	MC9508JM60CLH	9508JM60 64LQFP FG	QFP64	RFS	BL Microcontrollers
MK10DX256VLQ10	935324543557	MK10DX256VLQ10	KINETIS 256K FLEX	LQFP144	RFS	BL Microcontrollers
MK60DN256VLQ10	935324572557	MK60DN256VLQ10	KINETIS 256K	LQFP144	RFS	BL Microcontrollers
MKL34Z64VLL4	935324636557	MKL34Z64VLL4	Cortex M0+Core,Flex USB	LQFP100	RFS	BL Microcontrollers
MK22FN256VLH12	935324839557	MK22FN256VLH12	32bit MCU 256KB Flash	QFP64	RFS	BL Microcontrollers
MK60DX256ZVLQ10	935325601557	MK60DX256ZVLQ10	KINETIS 256KFLEX ENET	LQFP144	RFS	BL Microcontrollers
MK10DN512ZVLQ10	935325603557	MK10DN512ZVLQ10	Kinetis 512K	LQFP144	RFS	BL Microcontrollers
MK20DX256ZVLQ10	935325742557	MK20DX256ZVLQ10	Kinetis 256Kflex USB	LQFP144	RFS	BL Microcontrollers
MKV31F256VLH12P	935326015557	MKV31F256VLH12P	32bit MCU 256KB Flash	QFP64	RFS	BL Microcontrollers
MKV31F512VLL12P	935326028557	MKV31F512VLL12P	32Bit MCU 512KB Flash	LQFP100	RFS	BL Microcontrollers