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#### What is "[Embedded - Microcontrollers](#)"?

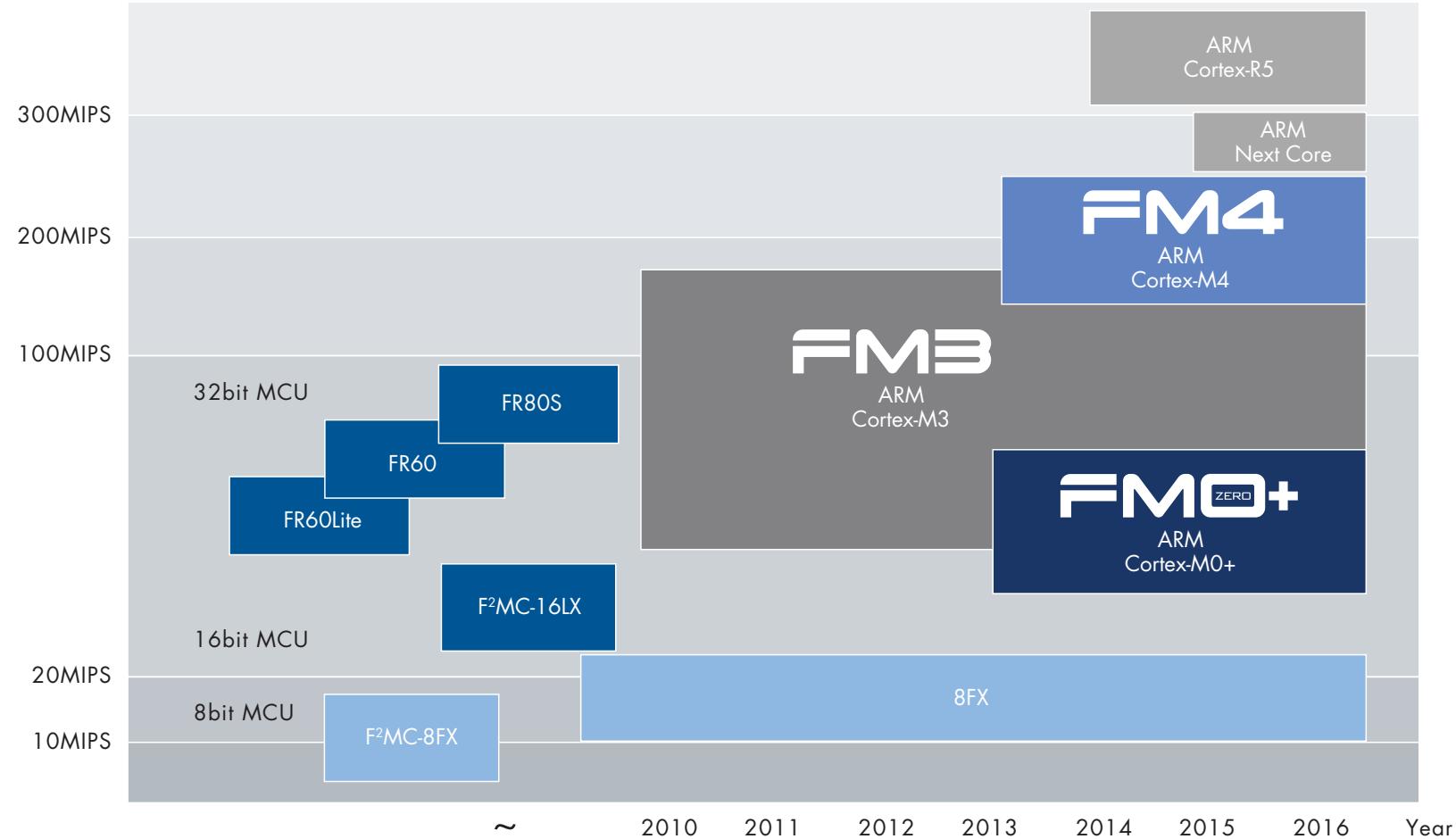
"[Embedded - Microcontrollers](#)" refer to small, integrated circuits designed to perform specific tasks within larger systems. These microcontrollers are essentially compact computers on a single chip, containing a processor core, memory, and programmable input/output peripherals. They are called "embedded" because they are embedded within electronic devices to control various functions, rather than serving as standalone computers. Microcontrollers are crucial in modern electronics, providing the intelligence and control needed for a wide range of applications.

#### Applications of "[Embedded - Microcontrollers](#)"

##### Details

Product Status	Obsolete
Core Processor	F <sup>2</sup> MC-8FX
Core Size	8-Bit
Speed	16MHz
Connectivity	I <sup>2</sup> C, LINbus, SIO, UART/USART
Peripherals	LVD, POR, PWM, WDT
Number of I/O	58
Program Memory Size	60KB (60K x 8)
Program Memory Type	FLASH
EEPROM Size	-
RAM Size	2K x 8
Voltage - Supply (Vcc/Vdd)	2.88V ~ 5.5V
Data Converters	A/D 12x8/10b
Oscillator Type	External
Operating Temperature	-40°C ~ 85°C (TA)
Mounting Type	Surface Mount
Package / Case	64-LQFP
Supplier Device Package	64-LQFP (10x10)
Purchase URL	<a href="https://www.e-xfl.com/product-detail/infineon-technologies/mb95f818kpmc1-g-snk1e2">https://www.e-xfl.com/product-detail/infineon-technologies/mb95f818kpmc1-g-snk1e2</a>

## Consumer and Industrial MCU Core Roadmap







## FM4 Family – 32bit Microcontrollers

Series Name	Product Name	Maximum Internal Clock Frequency [MHz]	Package [pin]	Operating Voltage: VCC [V]	Sub-Clock	Memory Type	ROM [bytes]	RAM [bytes]	Cache [Kbyte]	DMAC [ch]	Ext. Interrupt [ch]	External Bus	Maximum I/O port [ch]	10bit AD Converter [ch/unit]	12bit AD Converter [ch/unit]	DAConverter [bit x ch]	Output Compare [ch]	Free-Run Timer [ch]	Input Capture [ch]	Reload Timer [ch]	PWM Timer [ch]	PWC Timer [ch]	PPG Timer [ch]	Up/Down Counter [ch]	Other timers [ch]	I²C [ch]	UART/SI [ch]	SIO [ch]	LIN/UART/SIO [ch]	CAN [ch]	USB-Host [ch]	USB-Function [ch]	LCD Controller [seg. com]	Three-phase inverter	Note	Evaluation Device
MB9B160R	MB9BF166M	160	LQFP-80	2.7 to 5.5	✓	Main Flash + Work Flash	512K +32K	64K					63	16(3)	24(3)	12 x 2	Multi-Function Timer x 2units (Free-Run 3ch/ Output Compare 6ch/ Input Capture 4ch/ PPG 3ch/ Waveform Generator 3ch/ AD Activation Compare 6ch Selectable)	Base Timer x 8ch (Reload/PPG/PWM/ PWC Selectable)	QPRC x 2	1	Multi Function Serial x 8ch (UART/CSIO/I²C/LIN Selectable)	-	-	-	-	-	Dual Timer, Real Time Clock, DSTC x 128ch, Unique ID, SD Card I/F	On-chip Debug (SWJ-DP/ETM)								
	MB9BF166N		LQFP-100																																	
	MB9BF166R		QFP-100																																	
	MB9BF167M		BGA-112																																	
	MB9BF167N		LQFP-80																																	
	MB9BF167R		QFP-100																																	
	MB9BF168M		BGA-144																																	
	MB9BF168N		LQFP-80																																	
	MB9BF168R		QFP-100																																	
	MB9BF168R		BGA-112																																	
MB9B560L	MB9BF564K	160	LQFP-48	2.7 to 5.5	✓	Main Flash + Work Flash	256K +32K	32K					15	33	8(2)	12 x 2	Multi-Function Timer x 1unit (Free-Run 3ch/ Output Compare 6ch/ Input Capture 4ch/ PPG 3ch/ Waveform Generator 3ch/ AD Activation Compare 6ch Selectable)	Base Timer x 8ch (Reload/PPG/PWM/ PWC Selectable)	QPRC x 1	1	Multi Function Serial x 6ch (UART/CSIO/I²C/LIN Selectable)	1	1ch (USB-Host/ USB-Function Selectable)	-	-	-	-	CAN: 32Msg-buffer, Dual Timer, Real Time Clock, Unique ID, DSTC x 128ch	On-chip Debug (SWJ-DP)							
	MB9BF564L		LQFP-64																																	
	MB9BF565K		LQFP-48																																	
	MB9BF565L		LQFP-64																																	
	MB9BF566K		LQFP-48																																	
	MB9BF566L		LQFP-64																																	

## FM4 Family – 32bit Microcontrollers

Series Name	Product Name	Maximum Internal Clock Frequency [MHz]	Package [pin]	Operating Voltage: VCC[V]	Sub-Clock	Memory Type	ROM [bytes]	RAM [bytes]	Cache [Kbyte]	DMAC [ch]	Ext. Interrupt [ch]	External Bus	Maximum I/O port [ch]	10bit AD Converter [chn/unit]	12bit AD Converter [chn/unit]	DAConverter [bit x ch]	Output Compare [ch]	Free-Run Timer [ch]	Input Capture [ch]	Reload Timer [ch]	PWM Timer [ch]	PWC Timer [ch]	PPG Timer [ch]	Up/Down Counter [ch]	Other timers [ch]	I²C [ch]	UART/SI [ch]	SIO [ch]	LIN/UART/SIO [ch]	CAN [ch]	USB-Host [ch]	USB-Function [ch]	LCD Controller [seg 7 com]	Three-phase inverter	Note	Evaluation Device
MB9B460L	MB9BF464K	160	LQFP-48 QFN-48	2.7 to 5.5	✓	Main Flash +Work Flash	256K +32K	32K	8	-	15	16	33	48	8(2)	15(2)	8(2)	12 x 2	Base Timer x 8ch (Reload/PPG/PWM/ PWC Selectable)	QPRC x 1	1	Multi Function Serial x 6ch (UART/CSI0/I2C/LIN Selectable)	1	–	–	–	–	CAN: 32Msg-buffer, Dual Timer, Real Time Clock, Unique ID, DSTC x 128ch	On-chip Debug (SWJ-DP)							
	MB9BF464L		LQFP-64 QFN-64																																	
	MB9BF465K		LQFP-48 QFN-48																																	
	MB9BF465L		LQFP-64 QFN-64																																	
	MB9BF466K		LQFP-48 QFN-48																																	
	MB9BF466L		LQFP-64 QFN-64																																	

## FM4 Family – 32bit Microcontrollers

Series Name	Product Name	Maximum Internal Clock Frequency [MHz]	Package [pin]	Operating Voltage: VCC[V]	Sub-Clock	Memory Type	ROM [bytes]	RAM [bytes]	Cache [Kbyte]	DMAC [ch]	Ext. Interrupt [ch]	External Bus	Maximum I/O port [ch]	10bit AD Converter [ch/unit]	12bit AD Converter [ch/unit]	DAConverter [bit x ch]	Output Compare [ch]	Free-Run Timer [ch]	Input Capture [ch]	Reload Timer [ch]	PWM Timer [ch]	PWC Timer [ch]	PPG Timer [ch]	Up/Down Counter [ch]	Other timers [ch]	I²C [ch]	UART/SI [ch]	SIO [ch]	LIN/UART/SIO [ch]	CAN [ch]	USB-Host [ch]	USB-Function [ch]	LCD Controller [seg 7 com]	Three-phase inverter	Note	Evaluation Device
MB9B360L	MB9BF364K	160	LQFP-48 QFN-48	2.7 to 5.5 2.7 to 5.5	✓	Main Flash +Work Flash	256K +32K	32K	8	-	15	16	33	48	8(2)	12 x 2	Multi-Function Timer x 1unit (Free-Run 3ch/ Output Compare 6ch/ Input Capture 4ch/ PPG 3ch/ Waveform Generator 3ch/ AD Activation Compare 6ch Selectable)	Multi-Function Timer x 2units (Free-Run 3ch/ Output Compare 6ch/ Input Capture 4ch/ PPG 3ch/ Waveform Generator 3ch/ AD Activation Compare 6ch Selectable)	Multi-Function Timer x 1unit (Free-Run 3ch/ Output Compare 6ch/ Input Capture 4ch/ PPG 3ch/ Waveform Generator 3ch/ AD Activation Compare 6ch Selectable)	Base Timer x 8ch (Reload/PPG/PWM/ PWC Selectable)	QPRC x 1	1	Multi Function Serial x 6ch (UART/CSIO/I2C/LIN Selectable)	-	1ch (USB-Host/ USB-Function Selectable)	-	✓	Dual Timer, Real Time Clock, Unique ID, DSTC x 128ch	On-chip Debug (SWJ-DP)							
	MB9BF364L		LQFP-64 QFN-64																																	
	MB9BF365K		LQFP-48 QFN-48																																	
	MB9BF365L		LQFP-64 QFN-64																																	
	MB9BF366K		LQFP-48 QFN-48																																	
	MB9BF366L		LQFP-64 QFN-64																																	





## FM3 Family – 32bit Microcontrollers

Series Name	Product Name	Maximum Internal Clock Frequency [MHz]	Package [pin]	Operating Voltage: VCC [V]	Sub-Clock	Memory Type	ROM [byte]	RAM [byte]	Cache [Kbyte]	DMAC [ch]	Ext. Interrupt [ch]	External Bus	Maximum I/O port [ch]	10bit AD Converter [bit/(unit)]	12bit AD Converter [bit/(unit)]	DA Converter [bit x ch]	Output Compare [ch]	Free-Run Timer [ch]	Input Capture [ch]	Reload Timer [ch]	PWM Timer [ch]	PPG Timer [ch]	Up/Down Counter [ch]	Other timers [ch]	I <sup>2</sup> C [ch]	UART/SI [ch]	SIO [ch]	LINUART/SIO [ch]	CAN [ch]	USB-Host [ch]	USB-Function [ch]	LCD Controller [seg com]	Three-phase Inverter	Note	Evaluation Device
BASIC GROUP																																			
MB9B320T	MB9BF328S*	60	LQFP-144	2.7 to 5.5	<input checked="" type="checkbox"/>	Dual Op. Flash (Main area + Work area)	1M +64K	160K	-	8	32	<input checked="" type="checkbox"/>	122	154	-	24(2)	10bit x 2	Multi-Function Timer x 1unit (Free-Run 3ch/ Output Compare 6ch/ Input Capture 4ch/PPG 3ch/ Waveform Generator 3ch/ AD Activation Compare 3ch Selectable)	Base Timer x 16ch (Reload/PPG/PWM/ PWC Selectable)	QPRC x 1	QPRC x 2	1	Multi Function Serial x 16ch (UART/CSIO/I <sup>2</sup> C/LIN Selectable)	- 1ch (USB-Host/ USB-Function Selectable)	<input checked="" type="checkbox"/>	Dual Timer, HDMI-CEC/Remote Control Reception x 2, Real Time Clock, Unique ID	On-chip Debug (SWJ-DP/ETM)								
	MB9BF328T*																																		
	MB9BF329S*		LQFP-144	1.5M +64K	192K									122	154	-																			
	MB9BF329T*		LQFP-176 BGA-192											154	-	-																			
MB9B120T	MB9BF128S*	60	LQFP-144	2.7 to 5.5	<input checked="" type="checkbox"/>	Dual Op. Flash (Main area + Work area)	1M +64K	160K	-	8	32	<input checked="" type="checkbox"/>	122	154	-	24(2)	10bit x 2	Multi-Function Timer x 1unit (Free-Run 3ch/ Output Compare 6ch/ Input Capture 4ch/PPG 3ch/ Waveform Generator 3ch/ AD Activation Compare 3ch Selectable)	Base Timer x 16ch (Reload/PPG/PWM/ PWC Selectable)	QPRC x 1	QPRC x 2	1	Multi Function Serial x 16ch (UART/CSIO/I <sup>2</sup> C/LIN Selectable)	- 1ch (USB-Host/ USB-Function Selectable)	<input checked="" type="checkbox"/>	Dual Timer, HDMI-CEC/Remote Control Reception x 2, Real Time Clock, Unique ID	On-chip Debug (SWJ-DP/ETM)								
	MB9BF128T*													122	154	-																			
	MB9BF129S*		LQFP-144	1.5M +64K	192K									122	154	-																			
	MB9BF129T*		LQFP-176 BGA-192											154	-	-																			
MB9A420L	MB9AF421K	40	LQFP-48 LQFP-52 QFN-48	2.7 to 5.5	<input checked="" type="checkbox"/>	FLASH	64K	4K	-	-	14	-	36	-	8(1)	10bit x 1	Multi-Function Timer x 1unit (Free-Run 3ch/ Output Compare 6ch/ Input Capture 3ch/PPG 3ch/ Waveform Generator 3ch/ AD Activation Compare 3ch Selectable)	Base Timer x 8ch (Reload/PPG/PWM/ PWC Selectable)	-	1	Multi Function Serial x 4ch (UART/CSIO/I <sup>2</sup> C/LIN Selectable)	1 - - - -	<input checked="" type="checkbox"/>	CAN: 32Msg-buffer, Dual Timer, Real Time Clock, Unique ID	On-chip Debug (SWJ-DP)										
	MB9AF421L		LQFP-64 QFN-64											19	51	-																			
MB9A120L	MB9AF121K	40	LQFP-48 LQFP-52 QFN-48	2.7 to 5.5	<input checked="" type="checkbox"/>	FLASH	64K	4K	-	-	14	-	36	-	8(1)	10bit x 1	Multi-Function Timer x 1unit (Free-Run 3ch/ Output Compare 6ch/ Input Capture 3ch/PPG 3ch/ Waveform Generator 3ch/ AD Activation Compare 3ch Selectable)	Base Timer x 8ch (Reload/PPG/PWM/ PWC Selectable)	-	1	Multi Function Serial x 4ch (UART/CSIO/I <sup>2</sup> C/LIN Selectable)	- - - -	<input checked="" type="checkbox"/>	Dual Timer, Real Time Clock, Unique ID	On-chip Debug (SWJ-DP)										
	MB9AF121L		LQFP-64 QFN-64											19	51	-																			

\* In development; \*\*Planning



## 8FX – 8bit Microcontrollers

Series Name	Product Name	Maximum Internal Clock Frequency [MHz]	Package [pin]	Operating Voltage: VCC/V	Sub-Clock	Memory Type	ROM [byte]	RAM [byte]	Cache [Kbyte]	DMA/C [ch]	Ext. Interrupt [ch]	External Bus	Maximum I/O port [ch]	10bit AD Converter [ch/unit]	12bit AD Converter [ch/unit]	DA Converter [bit x ch]	Output Compare [ch]	Free-Run Timer [ch]	Input Capture [ch]	Reload Timer [ch]	PWM Timer [ch]	PWC Timer [ch]	PPG Timer [ch]	Up/Down Counter [ch]	Other timers [ch]	I²C [ch]	UART/SI [ch]	SIO [ch]	LINUART/SIO [ch]	CAN [ch]	USB-Host [ch]	USB-Function [ch]	LCD Controller [seg x com]	Three-phase Inverter	Note	Evaluation Device
STANDARD																																				
MB95650L	MB95F652E	16	TSSOP-24 SOP-24 QFN-32	1.8 to 5.5	<input checked="" type="checkbox"/>	Dual Op. Flash	8K	256					21 20 21																							
	MB95F652L						12K	512	-	-	6	-	20 21 20 21 20 21			6(1)	-																			
	MB95F653E						20K	1024					21 20 21 20 21																							
	MB95F653L						36K						20 21 20 21																							
	MB95F654E																																			
	MB95F654L																																			
	MB95F656E																																			
MB95810K	MB95F656L	16	LQFP-64	2.88 to 5.5	<input checked="" type="checkbox"/>	Dual Op. Flash	20K	512					12(1)																							
	MB95F814K						36K	1K	-	-	12	-	58																							
	MB95F816K						60K	2K																												
	MB95F818K																																			
On-chip Debug																																				
On-chip Debug																																				

## Traveo Family – 32bit Microcontrollers

Series Name	Product Name	Maximum Internal Clock Frequency [MHz]	Package [pin]	Operating Voltage: VCC [V]	Sub Clock	Memory Type	ROM [byte]	RAM [byte]	Cache [Kbyte]	DMA[C][ch]	Ext. Interrupt [ch]	External Bus	Maximum I/O port [ch]	12bit AD Converter [ch/unit]]	12bit AD Converter with 4ch sample & hold	DA Converter [bit x ch]	Output Compare [ch]	Free-Run Timer [ch]	Input Capture [ch]	Reload Timer [ch]	PWM Timer [ch]	PWC/Timer [ch]	PPG Timer [ch]	Up/Down Counter [ch]	Other timers [ch]	I2C [ch]	UART/SI [ch]	SIO [ch]	LIN/UART/SIO [ch]	CAN [ch]	USB-Host [ch]	USB-Function [ch]	LCD Controller [seg x com]	Three-phase inverter	Note	Evaluation Device
CAN/AUTOMOTIVE																																				
MB9D560	MB9DF564MA	200	TEQFP-208	1.1 to 1.3 4.5 to 5.5	Main Flash + Work Flash	- Main Flash + Work Flash	(640K + 64K) x 2	64K x 2	(896K + 64K) x 2 (1152K + 64K) x 2	16 - 8 - - - 125 149 98 122	32(1) 8(2)	10bit x 2	32bitFree-Run Timer x 5ch 32bitInput Capture x 3unit 6ch 16bitFree-Run Timer x 20ch 16bit Input Capture x 8unit 15ch 16bitOutput Compare x 12unit 24ch Waveform Generator x 4unit 24ch	16bit Base Timer x 12ch (PWM/PPG/Reload/PWC Selectable)	4	Multi Function Serial x 5ch (LIN/UART/SIO Selectable)	3	✓	ARM Cortex-R5 CAN: 64msb, RDC x 2unit, Motor vector accelerato x 2unit  Models with A suffix on part number have no built-in FlexRay. Models with G suffix on part number have built-in FlexRay.	ARM Cortex-R5 Motor vector accelerato x 2unit Models with L suffix on part number have no built-in FlexRay. Models with Q suffix on part number have built-in FlexRay.	ARM Cortex-R5 Motor vector accelerato x 2unit Models with L suffix on part number have no built-in FlexRay. Models with Q suffix on part number have built-in FlexRay.	ARM Cortex-R5 RDC x 2unit Motor vector accelerato x 2unit Models with A suffix on part number have no built-in FlexRay. Models with G suffix on part number have built-in FlexRay.	ARM Cortex-R5 Motor vector accelerato x 2unit Models with L suffix on part number have no built-in FlexRay. Models with Q suffix on part number have built-in FlexRay.	ARM Cortex-R5 Motor vector accelerato x 2unit Models with A suffix on part number have no built-in FlexRay. Models with G suffix on part number have built-in FlexRay.	ARM Cortex-R5 Motor vector accelerato x 2unit Models with L suffix on part number have no built-in FlexRay. Models with Q suffix on part number have built-in FlexRay.	On-Chip Debug										
	MB9DF564MG						(896K + 64K) x 2	96K x 2																												
	MB9DF565MA						(1152K + 64K) x 2	128K x 2																												
	MB9DF565MG						(640K + 64K) x 2	64K x 2																												
	MB9DF566MA						(896K + 64K) x 2	96K x 2																												
	MB9DF566MG						(1152K + 64K) x 2	128K x 2																												
	MB9DF564ML						(640K + 64K) x 2	64K x 2																												
	MB9DF564MQ						(896K + 64K) x 2	96K x 2																												
	MB9DF565ML						(1152K + 64K) x 2	128K x 2																												
	MB9DF565MQ						(640K + 64K) x 2	64K x 2																												
	MB9DF566ML						(896K + 64K) x 2	96K x 2																												
	MB9DF566MLQ						(1152K + 64K) x 2	128K x 2																												
	MB9DF566LL						(640K + 64K) x 2	64K x 2																												
	MB9DF566LQ						(896K + 64K) x 2	96K x 2																												

# Traveo Family – 32bit Microcontrollers

Series Name	Product Name	Maximum Internal Clock Frequency [MHz]	Package [pin]	Operating Voltage: VCC [V]	Sub Clock	Memory Type	ROM [byte]	RAM [byte]	Cache [Kbyte]	DMA[C][ch]	Ext. Interrupt [ch]	External Bus	Maximum I/O port [ch]	12bit AD Converter [ch/unit]	12bit AD Converter with 4ch sample & hold	DA Converter [bit x ch]	Output Compare [ch]	Free-Run Timer [ch]	Input Capture [ch]	Reload Timer [ch]	PWM Timer [ch]	PWC Timer [ch]	PPG Timer [ch]	Up/Down Counter [ch]	Other Timers [ch]	I2C [ch]	UART/SI [ch]	SIO [ch]	LIN/UART/SIO [ch]	CAN [ch]	USB-Host [ch]	USB-Function [ch]	LCD Controller [seg x com]	Three-phase Inverter	Note	Evaluation Device
CAN/AUTOMOTIVE																																				
S6J3120	S6J3128HA	112	TEQFP -144	4.5 to 5.25	-	Main Flash +Work Flash	576K + 48K	TC-RAM: 32KB System - RAM: 16KB Backup - RAM: 8KB	Instruction: 16 Data: 16	16	16	A24/D16	112	50(2)	-	-	12	6	12	16bit Base Timer x 30ch (PWM/PPG/Reload/PWC Selectable)	2	RTC x 1ch	Multi Function Serial x 10ch (LIN/UART/SIO Selectable)	CAN - FD x 3ch	-	-	32 x 4	-	ARM Cortex-R5, SHE(Secure Hardware Extension), SMC x 4ch, Sound generator x 3ch	On-Chip Debug						
	S6J3129HA																																			
	S6J312AHA																																			
S6J3200	S6J32AAKS	160	TEQFP -208	1.1 to 1.3 3.0 to 3.6 4.5 to 5.5	✓	Main Flash +Work Flash	1088K + 112K	TC-RAM: 64KB System - RAM: 128KB Backup - RAM: 16KB VRAM: 1024KB	Instruction: 16 Data: 16	16	16	-	120	46(1)	-	24	12	24	Reload Timer x 14ch 16bit Base Timer x 24ch (PWM/PPG/Reload/PWC Selectable)	2	RTC x 1ch	Multi Function Serial x 12ch (LIN/UART/SIO/I2C Selectable)	CAN-FD x 4ch	-	-	30 x 4	-	ARM Cortex-R5, SHE(Secure Hardware Extension), SMC x 6ch, Sound generator x 4ch, 2D Graphic Engine, Display Output x 1ch	On-Chip Debug							
	S6J32AAKU																																			
	S6J32AALS																																			
	S6J32AALU																																			
	S6J32BAKS																																			
	S6J32BAKU																																			
	S6J32BALS																																			
	S6J32BALU																																			
	S6J32CAKS																																			
	S6J32CAKU																																			
	S6J32CALS																																			
	S6J32CALU																																			
	S6J32DAKS																																			
	S6J32DAKU																																			
	S6J32DALS																																			
	S6J32DALU																																			



## FCR4 Family – 32bit Microcontrollers

Series Name	Product Name	Maximum Internal Clock Frequency [MHz]	Package [pin]	Operating Voltage: VCC [V]	Sub Clock	Memory Type	ROM [bytes]	RAM [bytes]	Cache [Kbyte]	DMAC [ch]	Ext. Interrupt [ch]	External Bus	Maximum I/O port [ch]	10bit AD Converter [ch/unit]	12bit AD Converter [ch/unit]	DA/Converter [bit x ch]	Output Compare [ch]	Free-Run Timer [ch]	Input Capture [ch]	Reload Timer [ch]	PWM Timer [ch]	PWC Timer [ch]	PPG Timer [ch]	Up/Down Counter [ch]	Other timers [ch]	I2C [ch]	UART/SI [ch]	SIO [ch]	LINUART/SIO [ch]	CAN [ch]	USB-Host [ch]	USB-Function [ch]	LCD Controller [seq x com]	Three-phase Inverter	Note	Evaluation Device
HYBRID AUTOMOTIVE INSTRUMENTS CLUSTER																																				
MB9DF125	MB9DF125PMC	128	LQFP-176	1.1 to 1.3 3.0 to 5.5	✓	FLASH	1088	128	8	8	32	-	123	50(1)	-	-	8	8	8	8	10	-	-	24	2	-	1	2	3	2	2	-	-	ARM Cortex R4, SHE (Secure Hardware Extension), Real Time Clock, Stepper Motor Controller (SMC); 4 ch, Data Flash: 48KB, Windows Watchdog, Clock supervisor, Sound Generator, I2S: 2 ch, Quad SPI Flash Interface: 1 ch, NMI (intern/extern): 32/1 ch, CRC Hardware Module: 1 ch, Protection Unit: MPU, PPU, TPU, various Power Down modes	On-chip Debug	
	MB9DF125EPMC					FLASH	2176	208	16	8	32	-	110	50(1)	-	-	8	8	8	8	10	-	-	24	2	-	1	2	3	2	2	-	-	ARM Cortex R4, SHE (Secure Hardware Extension), Real Time Clock, Stepper Motor Controller (SMC); 6 ch, Data Flash: 48KB, Windows Watchdog, Clock supervisor, Sound Generator, I2S: 2 ch, Quad SPI Flash Interface: 1 ch, NMI (intern/extern): 32/1 ch, CRC Hardware Module: 1 ch, Protection Unit: MPU, PPU, TPU, various Power Down modes	On-chip Debug	
MB9DF126	MB9DF126BPMC	128	LQFP-176	1.1 to 1.3 3.0 to 5.5	✓	FLASH	2176	208	16	8	32	-	110	50(1)	-	-	8	8	8	8	10	-	-	24	2	-	1	2	3	2	3	-	-	ARM Cortex R4, APIX Remote handler with 2 ch AIC (APIX Inter Connect), APIX1 Phy: 1 ch, Real Time Clock, Stepper Motor Controller (SMC): 6 ch, Data Flash: 64KB, Windows Watchdog, Clock supervisor, Sound Generator, I2S: 2 ch, 2 ch, Quad SPI Flash Interface: 1 ch, NMI (intern/extern): 32/1 ch, CRC Hardware Module: 1 ch, Protection Unit: MPU, PPU, TPU, various Power Down modes	On-chip Debug	
MB9EF226	MB9EF226PMC	128	LQFP-176	1.1 to 1.3 3.0 to 5.5	✓	FLASH	2176	128	16	8	32	-	117	50(1)	-	-	8	8	8	8	10	-	-	24	2	-	1	2	3	2	2	-	-	ARM Cortex R4, 2D Graphics Engine scaler, color palette, gamma correction, blending, raster operation, various alpha blending modes, run-length decoding, hor/ver flip and rotation, affine transformations, Embedded Video-RAM: 1MB, TFT Output Interface: RGB888/RSDS Output, SHE (Secure Hardware Extension), Real Time Clock, Stepper Motor Controller (SMC): 4 ch, Data Flash: 48KB, Windows Watchdog, Clock supervisor, Sound Generator, I2S: 2 ch, Quad SPI Flash Interface: 2 ch/1 ch for MCU and 1 ch for Graphic, NMI (intern/extern): 32/1 ch, MediaLB (3 wire): 1 ch, CRC Hardware Module: 1 ch, Protection Unit: MPU, PPU, TPU, various Power Down modes	On-chip Debug	
	MB9EF226EPMC					FLASH	2176	128	16	8	32	-	117	50(1)	-	-	8	8	8	8	10	-	-	24	2	-	1	2	3	2	2	-	-	ARM Cortex R4, 2D Graphics Engine: scaler, color palette, gamma correction, blending, raster operation, various alpha blending modes, run-length decoding, hor/ver flip and rotation, affine transformations, Embedded Video-RAM: 1MB, TFT Output Interface: RGB888/RSDS Output, SHE (Secure Hardware Extension), Real Time Clock, Stepper Motor Controller (SMC): 6 ch, Data Flash: 48KB, Windows Watchdog, Clock supervisor, Sound Generator, I2S: 2 ch, Quad SPI Flash Interface2 ch/1 ch for MCU and 1 ch for Graphic, NMI (intern/extern): 32/1 ch, MediaLB (3 wire): 1 ch, CRC Hardware Module: 1 ch, Protection Unit: MPU, PPU, TPU, various Power Down modes	On-chip Debug	











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