

New 8FX 8bit Microcontroller

New 8FX MCU - MB95260 Series. Table with columns: Part number, Pin count, Application, Operation voltage, ROM/RAM, LVD, I/O, Timer, LIN-UART, 8/10bit A/D, Package.

New 8FX MCU - MB95350 Series. Table with columns: Part number, Pin count, Application, Operation voltage, ROM/RAM, LVD, I/O, Timer, LIN-UART, 8/10bit A/D, Package.

New 8FX MCU - MB95430 Series. Table with columns: Part number, Pin count, Application, Operation voltage, ROM/RAM, LVD, I/O, Timer, LIN-UART, 8/10bit A/D, Special, Package.

New 8FX MCU - MB95330 Series. Table with columns: Part number, Pin count, Application, Operation voltage, ROM/RAM, LVD, I/O, Timer, Communication, 8/10bit A/D, Special, Package.

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New 8FX MCU - MB95390 Series select. Table with columns: Part number, Pin count, Application, Operation voltage, ROM/RAM, LVD, I/O, Timer, Communication, 8/10bit A/D, Special, Package, Packing.

New 8FX MCU - MB95310/370 Series. Table with columns: Part number, Pin count, Application, Operation voltage, ROM/RAM, LVD, I/O, Timer, Communication, 8/10bit A/D, Special, Package.

New 8FX MCU - MB95410/470 Series. Table with columns: Part number, Pin count, Application, Operation voltage, ROM/RAM, LVD, I/O, Timer, Communication, 8/10bit A/D, Other function, Package.

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New 8FX MCU - MB95560 Series. Table with columns: Part number, Pin count, Application, Operation voltage, ROM/RAM, LVD, I/O, Timer, LIN-UART, 8/10bit A/D, Package.

New 8FX MCU - MB95650 Series. Table with columns: Part number, Pin count, Application, AVoltage, ROM/RAM, LVD, I/O, Timer, Communication, 8/12bit A/D, Special, Package.

New 8FX MCU - MB95630 Series. Table with columns: Part number, Pin count, Operation voltage, ROM/RAM, LVD (optional), I/O, Timer, Communication, 8/10bit A/D, Special, Package.

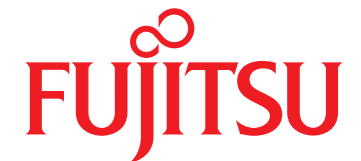
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New 8FX MCU - MB95690 Series. Table with columns: Part number, Pin count, Operation voltage, ROM/RAM, LVD (optional), I/O, Timer, Communication, 8/10bit A/D, Special, Package.

New 8FX MCU - MB95710/770 Series. Table with columns: Part number, Pin count, Operation voltage, ROM/RAM, LVD, I/O, Timer, Communication, 8/10bit A/D, LCDC, Special, Package.

New 8FX MCU - MB95810 Series. Table with columns: Part number, Pin count, Operation Voltage, ROM/RAM, LVD (optional), I/O, Timer, Communication, 8/10bit A/D, Special, Package.

New 8FX MCU - MB95870 Series. Table with columns: Part number, Pin count, Operation Voltage, ROM/RAM, LVD, TSC channels, I/O, Timers, Communication, 8/10bit A/D, Special, Package.



New 8FX & FM3 Selection Guide



Basic Group

	P/N	Operation Frequency	Pin numbers	Flash	RAM	12bit ADC(ch.)	RTC	Ext. Interrupt	USB HID	Serial IIC	SIO	UART	Base Timer			Multi Function Timer	Max IO	Package
													PWC	PWM	PPG			
Standard	MB9AF111K	40MHz	48	64KB+32K	16KB	2(8)	○	6+NMII	-	4			8	8	1unit	36	LQFP 48 QFN 48	
	MB9AF112K	40MHz	48	128KB+32K	16KB	2(8)	○	6+NMII	-	4			8	8	1unit	36	LQFP 48 QFN 48	
	MB9AF111L	40MHz	64	64KB	16KB	2(9)	-	7+NMII	-	8			8	8	1unit	51	LQFP64	
	MB9AF112L	40MHz	64	128KB	16KB	2(9)	-	7+NMII	-	8			8	8	1unit	51	LQFP64	
	MB9AF114L	40MHz	64	256KB	32KB	2(9)	-	7+NMII	-	8			8	8	1unit	51	LQFP64	
	MB9AF111M	40MHz	80	64KB	16KB	3(12)	-	11+NMII	-	8			8	8	2unit	66	LQFP80	
	MB9AF112M	40MHz	80	128KB	16KB	3(12)	-	11+NMII	-	8			8	8	2unit	66	LQFP80	
	MB9AF114M	40MHz	80	256KB	32KB	3(12)	-	11+NMII	-	8			8	8	2unit	66	LQFP80	
	MB9AF115M	40MHz	80	384KB	32KB	3(12)	-	11+NMII	-	8			8	8	2unit	66	LQFP80	
	MB9AF116M	40MHz	80	512KB	32KB	3(12)	-	11+NMII	-	8			8	8	2unit	66	LQFP80	
	MB9AF111N	40MHz	100	64KB	16KB	3(16)	-	16+NMII	-	8			8	8	2unit	83	LQFP100 QFP100	
	MB9AF112N	40MHz	100	128KB	16KB	3(16)	-	16+NMII	-	8			8	8	2unit	83	LQFP100 QFP100	
	MB9AF114N	40MHz	100	256KB	32KB	3(16)	-	16+NMII	-	8			8	8	2unit	83	LQFP100 QFP100	
	MB9AF115N	40MHz	100	384KB	32KB	3(16)	-	16+NMII	-	8			8	8	2unit	83	LQFP100 QFP100	
	MB9AF116N	40MHz	100	512KB	32KB	3(16)	-	16+NMII	-	8			8	8	2unit	83	LQFP100 QFP100	
	USB	MB9AF311K	40MHz	48	64KB+32K	16KB	2(8)	○	6+NMII	1ch	4			8	8	1unit	36	LQFP 48 QFN 48
MB9AF312K		40MHz	48	128KB+32K	16KB	2(8)	○	6+NMII	1ch	4			8	8	1unit	36	LQFP 48 QFN 48	
MB9AF311L		40MHz	64	64KB	16KB	2(9)	-	7+NMII	1ch	8			8	8	1unit	51	LQFP64	
MB9AF312L		40MHz	64	128KB	16KB	2(9)	-	7+NMII	1ch	8			8	8	1unit	51	LQFP64	
MB9AF314L		40MHz	64	256KB	32KB	2(9)	-	7+NMII	1ch	8			8	8	1unit	51	LQFP64	
MB9AF311M		40MHz	80	64KB	16KB	3(12)	-	11+NMII	1ch	8			8	8	2unit	66	LQFP80	
MB9AF312M		40MHz	80	128KB	16KB	3(12)	-	11+NMII	1ch	8			8	8	2unit	66	LQFP80	
MB9AF314M		40MHz	80	256KB	32KB	3(12)	-	11+NMII	1ch	8			8	8	2unit	66	LQFP80	
MB9AF315M		40MHz	80	384KB	32KB	3(12)	-	11+NMII	1ch	8			8	8	2unit	66	LQFP80	
MB9AF316M		40MHz	80	512KB	32KB	3(12)	-	11+NMII	1ch	8			8	8	2unit	66	LQFP80	
MB9AF311N		40MHz	100	64KB	16KB	3(16)	-	16+NMII	1ch	8			8	8	2unit	83	LQFP100 QFP100	
MB9AF312N		40MHz	100	128KB	16KB	3(16)	-	16+NMII	1ch	8			8	8	2unit	83	LQFP100 QFP100	
MB9AF314N		40MHz	100	256KB	32KB	3(16)	-	16+NMII	1ch	8			8	8	2unit	83	LQFP100 QFP100	
MB9AF315N		40MHz	100	384KB	32KB	3(16)	-	16+NMII	1ch	8			8	8	2unit	83	LQFP100 QFP100	
MB9AF316N		40MHz	100	512KB	32KB	3(16)	-	16+NMII	1ch	8			8	8	2unit	83	LQFP100 QFP100	

Ultra low leak Group

	P/N	Operation Frequency	Pin numbers	Flash	RAM	12bit ADC(ch.)	RTC	Ext. Interrupt	LCD	Serial IIC	SIO	UART	Base Timer			Multi Function Timer	Max IO	Package
													PWC	PWM	PPG			
Standard	MB9AF131K	20MHz	48	64KB	8KB	1(6)	○	6+NMII	-	4			8	8	1unit	37	LQFP48 QFN48	
	MB9AF132K	20MHz	48	128KB	8KB	1(6)	○	6+NMII	-	4			8	8	1unit	37	LQFP48 QFN48	
	MB9AF131L	20MHz	64	64KB	8KB	1(8)	○	8+NMII	-	8			8	8	1unit	52	LQFP64 QFN64	
	MB9AF132L	20MHz	64	128KB	8KB	1(8)	○	8+NMII	-	8			8	8	1unit	52	LQFP64 QFN64	
	MB9AF131M	20MHz	80	64KB	8KB	1(12)	○	11+NMII	-	8			8	8	1unit	67	LQFP80	
	MB9AF132M	20MHz	80	128KB	8KB	1(12)	○	11+NMII	-	8			8	8	1unit	67	LQFP80	
	MB9AF131N	20MHz	100	64KB	8KB	1(16)	○	16+NMII	-	8			8	8	1unit	84	LQFP100 QFP100	
	MB9AF132N	20MHz	100	128KB	8KB	1(16)	○	16+NMII	-	8			8	8	1unit	84	LQFP100 QFP100	
	LCD	MB9AF311L	20MHz	64	64KB	8KB	1(9)	○	8+NMII	24x4 24x8	8			8	8	1unit	52	LQFP64 QFN64
		MB9AF32L	20MHz	64	128KB	8KB	1(9)	○	8+NMII	24x4 24x8	8			8	8	1unit	52	LQFP64 QFN64
		MB9AF31M	20MHz	80	64KB	8KB	1(12)	○	11+NMII	37x4 33x8	8			8	8	1unit	67	LQFP80
		MB9AF32M	20MHz	80	128KB	8KB	1(12)	○	11+NMII	37x4 33x8	8			8	8	1unit	67	LQFP80
		MB9AF31N	20MHz	100	64KB	8KB	1(16)	○	16+NMII	44x4 40x8	8			8	8	1unit	84	LQFP100 QFP100
		MB9AF32N	20MHz	100	128KB	8KB	1(16)	○	16+NMII	44x4 40x8	8			8	8	1unit	84	LQFP100 QFP100

High Performance Group

	P/N	Operation Frequency	Pin numbers	Flash	RAM	12bit ADC(ch.)	RTC	Ext. Interrupt	CAN	USB HID	Ethernet	Serial IIC	SIO	UART	PWC	PWM	PPG	Base Timer Reload	Multi Function Timer	Max IO	Package		
																						Standard	MB9BF104N
MB9BF105N	80MHz	100	384KB	64KB	3(16)	-	16+NMII	-	-	-	8						8	2unit	80	LQFP100			
MB9BF106N	80MHz	100	512KB	64KB	3(16)	-	16+NMII	-	-	-	8						8	2unit	100	LQFP120			
MB9BF104R	80MHz	120	256KB	32KB	3(16)	-	16+NMII	-	-	-	8						8	2unit	100	LQFP120			
MB9BF105R	80MHz	120	384KB	64KB	3(16)	-	16+NMII	-	-	-	8						8	2unit	100	LQFP120			
MB9BF106R	80MHz	120	512KB	64KB	3(16)	-	16+NMII	-	-	-	8						8	2unit	100	LQFP120			
USB	MB9BF304N	80MHz	100	256KB	32KB	3(16)	-	16+NMII	1ch	-	-	8						8	2unit	80	LQFP100		
	MB9BF305N	80MHz	100	384KB	64KB	3(16)	-	16+NMII	1ch	-	-	8						8	2unit	80	LQFP100		
	MB9BF306N	80MHz	100	512KB	64KB	3(16)	-	16+NMII	1ch	-	-	8						8	2unit	80	LQFP100		
	MB9BF304R	80MHz	120	256KB	32KB	3(16)	-	16+NMII	1ch	-	-	8						8	2unit	100	LQFP120		
	MB9BF305R	80MHz	120	384KB	64KB	3(16)	-	16+NMII	1ch	-	-	8						8	2unit	100	LQFP120		
	MB9BF306R	80MHz	120	512KB	64KB	3(16)	-	16+NMII	1ch	-	-	8						8	2unit	100	LQFP120		
	CAN	MB9BF404N	80MHz	100	256KB	32KB	3(16)	-	16+NMII	2ch	-	-	8						8	2unit	80		LQFP100
		MB9BF405N	80MHz	100	384KB	64KB	3(16)	-	16+NMII	2ch	-	-	8						8	2unit	80		LQFP100
		MB9BF406N	80MHz	100	512KB	64KB	3(16)	-	16+NMII	2ch	-	-	8						8	2unit	80		LQFP100
		MB9BF404R	80MHz	120	256KB	32KB	3(16)	-	16+NMII	2ch	-	-	8						8	2unit	100		LQFP120
		MB9BF405R	80MHz	120	384KB	64KB	3(16)	-	16+NMII	2ch	-	-	8						8	2unit	100	LQFP120	
		MB9BF406R	80MHz	120	512KB	64KB	3(16)	-	16+NMII	2ch	-	-	8						8	2unit	100	LQFP120	
		CAN + USB	MB9BF504N	80MHz	100	256KB	32KB	3(16)	-	16+NMII	2ch	1ch	-	8						8	2unit	80	LQFP100
			MB9BF505N	80MHz	100	384KB	64KB	3(16)	-	16+NMII	2ch	1ch	-	8						8	2unit	80	LQFP100
			MB9BF506N	80MHz	100	512KB	64KB	3(16)	-	16+NMII	2ch	1ch	-	8						8	2unit	80	LQFP100
			MB9BF504R	80MHz	120	256KB	32KB	3(16)	-	16+NMII	2ch	1ch	-	8						8	2unit	100	LQFP120
MB9BF505R			80MHz	120	384KB	64KB	3(16)	-	16+NMII	2ch	1ch	-	8						8	2unit	100	LQFP120	
MB9BF506R			80MHz	120	512KB	64KB	3(16)	-	16+NMII	2ch	1ch	-	8						8	2unit	100	LQFP120	
Standard			MB9BF112N	144MHz	100	128KB+32K	32KB	3(16)	○	16+NMII	-	-	-	8						8	3unit	83	LQFP100 QFP100
			MB9BF114N	144MHz	100	256KB+32K	32KB	3(16)	○	16+NMII	-	-	-	8						8	3unit	83	LQFP100 QFP100
			MB9BF115N	144MHz	100	384KB+32K	64KB	3(16)	○	16+NMII	-	-	-	8						8			