



**THE DATASHEET OF
MB90613APF-G-BNDE1**



Fujitsu Microelectronics Europe
16 bit Family of Microcontrollers
Last updated: 27-Feb-2002

Series	Device Part Number	Group Feature	ROM (kB)	ROM Type	RAM (Bytes)	32KHz Sub Clock	External Bus Interface	Vcc Min	Vcc Max	Pin Count
MB90610A	MB90611A	ROMless	0	ROMless	1024	No	Yes	2.70	5.50	100
MB90610A	MB90613A	ROMless	0	ROMless	3072	No	Yes	2.70	5.50	100
MB90620A	MB90622A	LCD (4x32)	32	Mask	1664	Yes	No	4.00	5.50	100
MB90620A	MB90623A	LCD (4x32)	48	Mask	2048	Yes	No	4.00	5.50	100
MB90620A	MB90P623A	LCD (4x32)	48	OTP	2048	Yes	No	4.00	5.50	100
MB90640A	MB90641A	General Purpose	64	Mask	2048	No	Yes	4.50	5.50	100
MB90640A	MB90P641A	General Purpose	64	OTP	2048	No	Yes	4.50	5.50	100
MB90385	MB90387	CAN	64	Mask	2048	Yes	No	3.50	5.50	48
MB90385	MB90F387	CAN	64	Flash	2048	Yes	No	3.50	5.50	48
MB90390	MB90F394H	2xCAN, 6xSMC	384	Flash	10240	No	No	4.50	5.50	120
MB90425GA/B/C	MB90427GA	CAN, LCD (4x24), 4xSMC	64	ROM	4096	No	No	4.50	5.50	100
MB90425GA/B/C	MB90427GB	CAN, LCD (4x24), 4xSMC	64	ROM	4096	Yes	No	4.50	5.50	100
MB90425GA/B/C	MB90427GC	CAN, LCD (4x24), 4xSMC	64	ROM	4096	Yes	No	4.50	5.50	100
MB90425GA/B/C	MB90428GA	CAN, LCD (4x24), 4xSMC	128	ROM	6144	No	No	4.50	5.50	100
MB90425GA/B/C	MB90428GB	CAN, LCD (4x24), 4xSMC	128	ROM	6144	Yes	No	4.50	5.50	100
MB90425GA/B/C	MB90428GC	CAN, LCD (4x24), 4xSMC	128	ROM	6144	Yes	No	4.50	5.50	100
MB90425GA/B/C	MB90F428GA	CAN, LCD (4x24), 4xSMC	128	Flash	6144	No	No	4.50	5.50	100
MB90425GA/B/C	MB90F428GB	CAN, LCD (4x24), 4xSMC	128	Flash	6144	Yes	No	4.50	5.50	100
MB90425GA/B/C	MB90F428GC	CAN, LCD (4x24), 4xSMC	128	Flash	6144	Yes	No	4.50	5.50	100
MB90440G	MB90F443G	3xCAN	128	Flash	6144	Yes	Yes	4.50	5.50	100
MB90460	MB90462	Inverter PWM	64	Mask	2048	No	No	4.50	5.50	64
MB90460	MB90F462	Inverter PWM	64	Flash	2048	No	No	4.50	5.50	64
MB90470	MB90473	General Purpose, 3 Volt	128	Mask	10240	Yes	Yes	1.80	3.60	100
MB90470	MB90474	General Purpose, 3 Volt	256	Mask	16384	Yes	Yes	1.80	3.60	100

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MB90470	MB90477	General Purpose, 3 Volt	256	Mask	8192	Yes	Yes	1.80	3.60	100
MB90470	MB90478	General Purpose, 3 Volt	256	Mask	8192	Yes	Yes	1.80	3.60	100
MB90470	MB90F474H	General Purpose, 3 Volt	256	Flash	16384	Yes	Yes	3.13	3.60	100
MB90470	MB90F474L	General Purpose, 3 Volt	256	Flash	16384	Yes	Yes	2.40	3.60	100
MB90470	MB90F476A	General Purpose, 3 Volt	192	Flash	4096	Yes	Yes	2.40	3.60	100
MB90495G	MB90497G	CAN	64	Mask	2048	Yes	Yes	4.50	5.50	64
MB90495G	MB90F497G	CAN	64	Flash	2048	Yes	Yes	4.50	5.50	64
MB90520	MB90522B	LCD (4x32)	64	Mask	3072	Yes	No	4.50	5.50	120
MB90520	MB90523B	LCD (4x32)	128	Mask	4096	Yes	No	4.50	5.50	120
MB90520	MB90F523B	LCD (4x32)	128	Flash	4096	Yes	No	4.50	5.50	120
MB90540G	MB90543G	2xCAN	128	Mask	6144	Yes	Yes	4.50	5.50	100
MB90540G	MB90543GS	2xCAN	128	Mask	6144	No	Yes	4.50	5.50	100
MB90540G	MB90F543G	2xCAN	128	Flash	6144	Yes	Yes	4.50	5.50	100
MB90540G	MB90F543GS	2xCAN	128	Flash	6144	No	Yes	4.50	5.50	100
MB90545G	MB90547G	CAN	64	Mask	2048	Yes	Yes	3.50	5.50	100
MB90545G	MB90547GS	CAN	64	Mask	2048	No	Yes	3.50	5.50	100
MB90545G	MB90548G	CAN	128	Mask	4096	Yes	Yes	3.50	5.50	100
MB90545G	MB90548GS	CAN	128	Mask	4096	No	Yes	3.50	5.50	100
MB90545G	MB90549G	CAN	256	Mask	6144	Yes	Yes	4.50	5.50	100
MB90545G	MB90549GS	CAN	256	Mask	6144	No	Yes	4.50	5.50	100
MB90545G	MB90F546G	CAN	256	Flash	8192	Yes	Yes	4.50	5.50	100
MB90545G	MB90F546GS	CAN	256	Flash	8192	No	Yes	4.50	5.50	100
MB90545G	MB90F548G	CAN	128	Flash	4096	Yes	Yes	4.50	5.50	100
MB90545G	MB90F548GS	CAN	128	Flash	4096	No	Yes	4.50	5.50	100
MB90550A	MB90552A/B	2ch IIC	64	Mask	2048	No	Yes	3.00	5.50	100
MB90550A	MB90553A/B	2ch IIC	128	Mask	4096	No	Yes	3.00	5.50	100
MB90550A	MB90F553A	2ch IIC	128	Flash	4096	No	Yes	4.50	5.50	100
MB90560/65	MB90561	Inverter PWM	32	Mask	1024	No	No	4.50	5.50	64
MB90560/65	MB90562	Inverter PWM	64	Mask	2048	No	No	4.50	5.50	64
MB90560/65	MB90567	Inverter PWM	96	Mask	3072	No	No	3.00	3.60	64
MB90560/65	MB90568	Inverter PWM	128	Mask	4096	No	No	3.00	3.60	64
MB90560/65	MB90F562B	Inverter PWM	64	Flash	2048	No	No	4.50	5.50	64
MB90560/65	MB90F568	Inverter PWM	128	Flash	4096	No	No	2.70	3.60	64
MB90570	MB90573/C	120pin General Purpose	120	Mask	5120	Yes	Yes	4.50	5.50	120

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MB90570	MB90574A/B/C	120pin General Purpose	256	Mask	10240	Yes	Yes	4.50	5.50	120
MB90570	MB90F574A	120pin General Purpose	256	Flash	10240	Yes	Yes	4.50	5.50	120
MB90580/85	MB90583C	5ch UART	128	Mask	6144	Yes	Yes	4.50	5.50	100
MB90580/85	MB90583CA	5ch UART	128	Mask	6144	No	Yes	4.50	5.50	100
MB90580/85	MB90587C	5ch UART	64	Mask	4096	Yes	Yes	4.50	5.50	100
MB90580/85	MB90587CA	5ch UART	64	Mask	4096	No	Yes	4.50	5.50	100
MB90580/85	MB90F583C	5ch UART	128	Flash	6144	Yes	Yes	4.50	5.50	100
MB90580/85	MB90F583CA	5ch UART	128	Flash	6144	No	Yes	4.50	5.50	100
MB90590G	MB90591G	2xCAN, 4xSMC	384	Mask	8192	No	No	4.50	5.50	100
MB90590G	MB90594G	2xCAN, 4xSMC	256	Mask	6144	No	No	4.50	5.50	100
MB90590G	MB90F591G	2xCAN, 4xSMC	384	Flash	8192	No	No	4.50	5.50	100
MB90590G	MB90F594G	2xCAN, 4xSMC	256	Flash	6144	No	No	4.50	5.50	100
MB90595G	MB90598G	CAN, 4xSMC	128	Mask	4096	No	No	4.50	5.50	100
MB90595G	MB90F598G	CAN, 4xSMC	128	Flash	4096	No	No	4.50	5.50	100

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