

Adapters for Fujitsu MCU

For MODEL1890A / 1891 / 1892 / 1893 / 1930 / 1931

- 1 Targeted address (listed on the right) must be set to program on M1890A

When standard M1890A (2M bit) is used, start buffer address of D919)B-D must be set at 00000h.

PAE(targeted address) list of M1890A

PAE setting	Start address	End address	Buffer start address
D919:A	No setting is required		
D919:B	40000h - 7FFFFh		40000h
D919:C	60000h - 7FFFFh		60000h
D919:D	70000h - 7FFFFh		70000h
D919:E	10000h - 7FFFFh		10000h
D919:F	48000h - 7FFFFh		48000h
DA10:M	No setting is required		
DA10:N	80000h - FFFFFh		80000h
B6DC:U	E000h - FFFFh		E000h
B6DC:V	C000h - FFFFh		C000h

- 2 **Mode_H** Sector protect is not available on this device
Device mode pin is set as High level
- 3 * Mark Sector protect is available on M1893, 1930,1931 (sector protect board is required)
- 4 **MBxx Fxxx** not evaluated yet
- 5 **Bxxx** under development for M1893, 1930 and 1931
- 6 # Mark Use only program mode to write data. CONT (continuous mode) is not valid on this device. For erase, set targeted address and erase twice. Please refer to the instruction manual of the adapter for details.
- 7 ML01-781 is designed for 3.3V. Therefore, a special adapter is required.
Please use Sanhayato adapter.

Adapter Parts #	Targeted device	Package Package code	Device code	Device code name	M1890A OU910	M1891/92 T9132A	M1930 SU3000LX	M1931 M1893
MF00-796 <i>Mode_H</i>	MB90F553A (5V)	QFP100 FPT-100P-M06	D919:C B90D	MB_F400I MB90F523	V4.32q ----	----	---- V.4.12i	---- V.1.12i
	MB90F598 (5V)	QFP100 FPT-100P-M06	D919:C B90D	MB_F400I MB90F523	V4.32q ----	----	---- V.4.12i	---- V.1.12i
	MB90F598G (5V)	QFP100 FPT-100P-M06	D919:C B704	MB_F400I 90F523B	V4.32q ----	----	---- V.4.12i	---- V.1.12i
	MB90F583B (5V)	QFP100 FPT-100P-M06	D919:C B704	MB_F400I 90F523B	V4.32q ----	----	---- V.4.12i	---- V.1.12i
	MB90F428A (5V)	QFP100 FPT-100P-M06	D919:C B704	MB_F400I 90F523B	V4.32q ----	----	---- V.4.12i	---- V.1.12i
	MB90F543 (5V)	QFP100 FPT-100P-M06	D919:C B704	MB_F400I 90F523B	V4.32q ----	----	---- V.4.12i	---- V.1.12i
	MB90F443G (5V)	QFP100 FPT-100P-M06	D919:C B704	MB_F400I 90F523B	V4.32q ----	----	---- V.4.12i	---- V.1.12i
	MB90F548G (5V)	QFP100 FPT-100P-M06	D919:C B704	MB_F400I 90F523B	V4.32q ----	----	---- V.4.12i	---- V.1.12i
	MB90F594A (5V)	QFP100 FPT-100P-M06	D919:B D816 B805	MB_F400I MB_F200I MB90F549	V4.32q ---- ----	---- V4.33n ----	---- ---- V.4.12i	---- ---- V.1.12i
	MB90F549 (5V)	QFP100 FPT-100P-M06	D919:B D816 B805	MB_F400I MB_F200I MB90F549	V4.32q ---- ----	---- V4.33n ----	---- ---- V.4.12i	---- ---- V.1.12i
	MB90F546GS (5V)	QFP100 FPT-100P-M06	D919:B D816 B805	MB_F400I MB_F200I MB90F549	V4.32q ---- ----	---- V4.33n ----	---- ---- V.4.12i	---- ---- V.1.12i
	MB90F474 (3.3V)	QFP100 FPT-100P-M06	D919:B D816 B808	MB_F400I MB_F200I MB90F474	V4.32q ---- ----	---- V4.33n ----	---- ---- V.4.12i	---- ---- V.1.12i
	MB90F654A (3.3V)	QFP100 FPT-100P-M06	D919:B D816 B808	MB_F400I MB_F200I MB90F474	V4.32q ---- ----	---- V4.33n ----	---- ---- V.4.12i	---- ---- V.1.12i

Adapter Parts #	Targeted device	Package Package code	Device code	Device code name	M1890A OU910	M1891/92 T9132A	M1930 SU3000LX	M1931 M1893	
MF00-989	MB90F553A (5V)	QFP100 FPT-100P-M06	D919:C B90D	MB_F400I MB90F523	V4.32q -----	----- -----	----- V.4.12i *	----- V.1.12i *	
	MB90F598 (5V)	QFP100 FPT-100P-M06	D919:C B90D	MB_F400I MB90F523	V4.32q -----	----- -----	----- V.4.12i *	----- V.1.12i *	
	MB90F598G (5V)	QFP100 FPT-100P-M06	D919:C B704	MB_F400I 90F523B	V4.32q -----	----- -----	----- V.4.12i *	----- V.1.12i *	
	MB90F583B (5V)	QFP100 FPT-100P-M06	D919:C B704	MB_F400I 90F523B	V4.32q -----	----- -----	----- V.4.12i *	----- V.1.12i *	
	MB90F428A (5V)	QFP100 FPT-100P-M06	D919:C B704	MB_F400I 90F523B	V4.32q -----	----- -----	----- V.4.12i *	----- V.1.12i *	
	MB90F543 (5V)	QFP100 FPT-100P-M06	D919:C B704	MB_F400I 90F523B	V4.32q -----	----- -----	----- V.4.12i *	----- V.1.12i *	
	MB90F443G (5V)	QFP100 FPT-100P-M06	D919:C B704	MB_F400I 90F523B	V4.32q -----	----- -----	----- V.4.12i *	----- V.1.12i *	
	MB90F548G (5V)	QFP100 FPT-100P-M06	D919:C B704	MB_F400I 90F523B	V4.32q -----	----- -----	----- V.4.12i *	----- V.1.12i *	
	MB90F594A (5V)	QFP100 FPT-100P-M06	D919:B B805	MB_F400I MB90F549	V4.32q -----	----- -----	----- V.4.12i *	----- V.1.12i *	
	MB90F549 (5V)	QFP100 FPT-100P-M06	D919:B B805	MB_F400I MB90F549	V4.32q -----	----- -----	----- V.4.12i *	----- V.1.12i *	
	MB90F546GS (5V)	QFP100 FPT-100P-M06	D919:B B805	MB_F400I MB90F549	V4.32q -----	----- -----	----- V.4.12i *	----- V.1.12i *	
	MB90F474 (3.3V)	QFP100 FPT-100P-M06	D919:B B808	MB_F400I MB90F474	V4.32q -----	----- -----	----- V.4.12i *	----- V.1.12i *	
	MB90F654A (3.3V)	QFP100 FPT-100P-M06	D919:B B808	MB_F400I MB90F474	V4.32q -----	----- -----	----- V.4.12i *	----- V.1.12i *	
	MB90F591A (5V)	QFP100 FPT-100P-M06	D919:E -----	MB_F400I -----	V4.32q -----	----- -----	----- -----	----- -----	
	Remark #								

Adapter Parts #	Targeted device	Package Package code	Device code	Device code name	M1890A OU910	M1891/92 T9132A	M1930 SU3000LX	M1931 M1893
MF00-22	MB90F523 (5V)	LQFP120 FPT-120P-M05	D919:C	MB F400T	V4.32q	----	----	----
			B90D	MB90F523	----	----	V.4.12i *	V.1.12i *
	MB90F574 (5V)	LQFP120 FPT-120P-M05	D919:B	MB F400T	V4.32q	----	----	----
			D816	MB F200T	----	V4.33n	----	----
			B90C	MB90F574	----	----	V.4.12i	V.1.12i
MF00-23	MB90F523 (5V)	QFP120 FPT-120P-M13	D919:C	MB F400T	V4.32q	----	----	----
			B90D	MB90F523	----	----	V.4.12i	V.1.12i
	MB90F523B (5V)	QFP120 FPT-120P-M13	D919:C	MB F400T	V4.32q	----	----	----
			B704	90F523B	----	----	V.4.12i *	V.1.12i *
	MB90F574 (5V)	QFP120 FPT-120P-M13	D919:B	MB F400T	V4.32q	----	----	----
			D816	MB F200T	----	V4.33n	----	----
			B90C	MB90F574	----	----	V.4.12i *	V.1.12i *
MF00-709	MB90F553A (5V)	LQFP100 FPT-100P-M05	D919:C	MB F400T	V4.32q	----	----	----
			D714	Am F100T	----	V4.33n	----	----
			B90D	MB90F523	----	----	V.4.12i	V.1.12i *
	MB90F583 (5V)	LQFP100 FPT-100P-M05	D919:C	MB F400T	V4.32q	----	----	----
				D714	Am F100T	----	V4.33n	----
			B704	90F523B	----	----	V.4.12i	V.1.12i
	MB90F584CA (5V)	LQFP100 FPT-100P-M05	D919:B	MB F400T	V4.32q	----	----	----
			D816	MB F200T	----	V4.33n	----	----
			B805	MB90F549	----	----	V.4.12i *	V.1.12i *
	MB90F474 (3.3V)	LQFP100 FPT-100P-M05	D919:B	MB F400T	V4.32q	----	----	----
			D816	MB F200T	----	V4.33n	----	----
			B808	MB90F474	----	----	V.4.12i *	V.1.12i *
	MB90F654A (3.3V)	LQFP100 FPT-100P-M05	D919:B	MB F400T	V4.32q	----	----	----
			D816	MB F200T	----	V4.33n	----	----
			B808	MB90F474	----	----	V.4.12i *	V.1.12i *
MF00-729	MB90F574A (5V)	LQFP120 FPT-120P-M21	D919:B	MB F400T	V4.32q	----	----	----
			D816	MB F200T	----	V4.33n	----	----
			B90C	MB90F574	----	----	V.4.12i *	V.1.12i *
ML01-781 Sanhayato 3.3V adapter	MB89P965A (3.3V)	LQFP48 FPT-48P-M03	B6DC:U	CU50_0TP	V4.32r	----	----	----
			----	----	----	----	----	----
			----	----	----	----	----	----
	MB89P595 (3.3V)	LQFP64 FPT-64P-M03	B6DC:V	CU50_0TP	V4.32r	----	----	----
			----	----	----	----	----	----
	MB89P585 (3.3V)	LQFP64 FPT-64P-M03	B6DC:V	CU50_0TP	V4.32r	----	----	----
			----	----	----	----	----	----
MF13-779	MB91F191 (3.3V)	LQFP120 FPT-120P-M05	D919:B	MB F400T	V4.32q	----	----	----
			D816	MB F200T	----	V4.33n	----	----
			B802	MB91F191	----	----	V.4.12i *	V.1.12i *
	MB91F192 (3.3V)	LQFP120 FPT-120P-M05	D919:E	MB F400T	V4.32q	----	----	----
			B90E	MB91F192	----	----	V.4.12i *	V.1.12i *
MF00-782A	MB91F109 (3.3V)	LQFP100 FPT-100P-M05	D919:B	MB F400T	V4.32q	----	----	----
			D816	MB F200T	----	V4.33n	----	----
			B802	MB91F191	----	----	V.4.12i	V.1.12i
MF00-783A	MB91F109 (3.3V)	QFP100 FPT-100P-M06	D919:B	MB F400T	V4.32q	----	----	----
			D816	MB F200T	----	V4.33n	----	----
			B802	MB91F191	----	----	V.4.12i	V.1.12i

Adapter Parts #	Targeted device	Package Package code	Device code	Device code name	M1890A OU910	M1891/92 T9132A	M1930 SU3000LX	M1931 M1893
MF13-785	MB90F497 (5V)	QFP64 FPT-64P-M06	D919:D B616	MB_F400T MB90F497	V4.32q -----	----- -----	----- V.4.12i *	----- V.1.12i *
	MB90F568 (3.3V)	QFP64 FPT-64P-M06	D919:C B703	MB_F400T MB90F568	V4.32q -----	----- -----	----- V.4.12i *	----- V.1.12i *
MF13-786	MB90F562 (5V)	LQFP64 FPT-64P-M09	D919:D B614	MB_F400T MB90F562	V4.32q -----	----- -----	----- V.4.12i	----- V.1.12i
	MB90F497 (5V)	LQFP64 FPT-64P-M09	D919:D B616	MB_F400T MB90F497	V4.32q -----	----- -----	----- V.4.12i *	----- V.1.12i *
	MB90F568 (3.3V)	LQFP64 FPT-64P-M09	D919:C B703	MB_F400T MB90F568	V4.32q -----	----- -----	----- V.4.12i *	----- V.1.12i *
MF13-787	MB90F562 (5V)	SHDIP64 DIP-64P-M01	D919:D B614	MB_F400T MB90F562	V4.32q -----	----- -----	----- V.4.12i	----- V.1.12i
	MB90F562B (5V)	SHDIP64 DIP-64P-M01	D919:D B614	MB_F400T MB90F562	V4.32q -----	----- -----	----- V.4.12i *	----- V.1.12i *
MF13-828A <i>Mode_H</i>	MB90F245H (3.3V)	TQFP80 FPT-80P-M15	D919:F B804	MB_F400T MB90F245	V4.32q -----	----- -----	----- V.4.12i	----- V.1.12i
MF00-870	MB91F133 (5V) (3.3Vconv)	FBGA144 BGA-144P-M01	D919:B D816	MB_F400T MB_F200T	V4.32q -----	----- V4.33n	----- -----	----- -----
			B803	MB91F133	-----	-----	V.4.12i	V.1.12i
MF00-871	MB91F133 (5V) (3.3Vconv)	LQFP144 FPT-144P-M08	D919:B D816	MB_F400T MB_F200T	V4.32q -----	----- V4.33n	----- -----	----- -----
			B803	MB91F133	-----	-----	V.4.12i	V.1.12i
MF00-892	MB91F361 (5V)	QFP208 FPT-208P-M04	D919:A D919	MB_F400T MB_F400T	V4.32q -----	----- V4.33n	----- -----	----- -----
			B90F	MB91F361	-----	-----	V.4.12i *	V.1.12i *
MF00-924A	MB91F109 (3.3V)	FBGA112 FBGA-112P-M02	D919:B D816	MB_F400T MB_F200T	V4.32q -----	----- V4.33n	----- -----	----- -----
			B802	MB91F191	-----	-----	V.4.12i *	V.1.12i *
MF13-965 <i>Mode_H</i>	MB90F245 (3.3V)	PLF-84-S1	D919:F	MB_F400T	V4.32q	-----	-----	-----
under development			B804	MB90F245	-----	-----	V.4.12i	V.1.12i
MF13-1003	MB91F155 (3.3V)	LQFP144 FPT-144P-M08	DA10:N B912	MB_F800T MB91F155	V4.32q -----	----- -----	----- V.4.12i	----- V.1.12i