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TO : MINATO REPRESENTATIVE

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>>>>>> N O T I F I C A T I O N <<<<<<<

SUBJECT: MODEL 1930 UPDATE (V2.2)

Dear Sirs,

We below and as per attached wish to inform you of the update of Model 1930 V2.2, which starts to be released now.

1. NEW DEVICE SUPPORT

Am28F256A	Am28F512A	Am29F100T	Am29F100B	Am29F200T
Am29F200B	Am29F400T	Am29F400B	AT29LV040	AT27C4096
CAT28F010	CAT28F020	CY27HC256	CY27C256	CY27HC512
CY27H1024	MBM29F040	28F016SA	28F016SV	IS27HC010
M5M27C400A	M5M28F400	M5M28F016	MX27C1001	MX27C4100
MX27C4096	MX28F1000	NM27C240	LH28F008SA	LH28F016SA
LH28F016SU	M28F410	M28F420	M28V410	M28V420
M27C801	M27C160	FM16008	FM16016	S-27C1000A
S-27C4000	29EE512	29EE010	TMS28F200BZ-T	TMS28F200BZ-B
TMS28F400BZ-T	TMS28F400BX-B	WS57C010F	WS57C45	

2. PROGRAMMING SPEC. CHANGE

CY7C286

3. ADDITIONAL DEVICE SUPPORT

S-27C256A S-27C512A

4. OTHERS

In verify mode and device check, wait time selection switch has been set.

Am27C2048 verify was not stable, so the verify conditions have been changed.

This update needs the master ROM update in Model 1930 as well. Even if the master ROM update is not done, it works, but among 16M bit devices such as 28F016 and so on, address MSB of 8 bit output device is not shown. The mainframe master ROM is R3.0.

5. DEVICE TABLE (V2.2 ADDITIONAL)

It shows devices which were added or modified after V2.1. Devices which have not its revision, show it was already supported before V2.1. AMD flash memories' 29F series; sector protection function is not supported.

Okaya's FM16008 is a memory module which consists of two chips of 28F008SA. When programming, a special conversion adapter is required.

Okaya's FM16016 is a memory module which consists of one chip of 28F016SA. When programming, a special conversion adapter is required.

Please take note of the following limitation in terms of device support;

- * intel's 28F016SV is workable under 5V unit power supply, but this programmer uses the same algorithm as 28F016SA (two types of power supply), so it cannot check if programming is verified with the 5V unit power supply or not.

- * 16M bit flash memories such as 28F016SA/SV and so on; The procedures are done per 8 bit unit, so swap programming between data of MSB and LSB does not function.

6. WARNING !

IC socket's signal configurations of M1930 are individually arranged for the devices which have no DIP package such as 28F004BX and 28F008SA, etc. Thus, you must consult us previously when you try to use other vendors' conversion adapters since in many cases it is impossible to perform the programming.

7. RELEASE OF MASTER ROM

We are ready to provide you with the master ROM, so you will please consult us when required.

THAT'S ALL !

Device Name	Code	Capacity	Pin	Sub Adapter	Programmer Version
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AMD

Am28F256A	D51B	32K x8	32		2.2
Am28F512A	D616	64K x8	32		2.2
Am29F100T	D714	128K x8	-	H910-13 (SOP44)	2.2
Am29F100B	D715	128K x8	-	H910-13 (SOP44)	2.2
Am29F200T	D812	256K x8	-	H910-13 (SOP44)	2.2
Am29F200B	D813	256K x8	-	H910-13 (SOP44)	2.2
Am29F400T	D912	512K x8	-	H910-13 (SOP44)	2.2
Am29F400B	D913	512K x8	-	H910-13 (SOP44)	2.2

ATMEL

AT29LV040	D925	512K x8	32		2.2
AT27C4096	E91A	256K x16	40		2.12

CATALYST

CAT28F010	D735	128K x8	32		2.2
CAT28F020	D825	256K x8	32		2.2

CYPRESS

CY27C256	E524	32K x8	28		2.13
CY7C286	E620	64K x8	28		2.13a
CY27H512	E613	64K x8	28		2.2
CY27H010	E750	128K x8	32		2.2
CY27H1024	E781	64K x16	40		2.13

FUJITSU

MBM29F040	D928	512K x8	32		2.2
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ISSI

IS27HC010	E73E	128K x8	32		2.12
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Device Name	Code	Capacity	Pin	Sub Adapter	Programmer Version
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INTEL

28F016SA	DB21	2M x8	-	H910-33 (TSOP56)	2.2
28F016SV	DB21	2M x8	-	H910-33 (TSOP56)	2.2

MACRONICS

MX27C1001	E73F	128K x8	32		2.18
MX27C4100	E948	256K x16	40		2.13
MX27C4096	E91B	256K x16	40		2.13
MX28F1000	D733	128K x8	32		2.13

MITSUBISHI

M5M27C400	E947	512K x8	40		2.12
M5M28F400	D914	512K x8	-	H910-13 (SOP44)	2.2
M5M28F016	DB22	2M x8	-	H910-37 (SOP44)	2.2

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NM27C240	E91C	256K x16	40		2.13
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OKAYA ELECTRONICS

FM16008	DB10	1M x16	-		2.13
FM16016(16bit)	DB11	1M x16	-		2.2
FM16016(8bit)	DB12	2M x8	-		2.2

SHARP

LH28F008SA	DA22	1M x8	-	H910-8 H910-10	2.2
LH28F016SA	DB24	2M x8	-	H910-33	2.2
LH28F016SU	DB25	2M x8	-	H910-33	2.2

Device Name	Code	Capacity	Pin	Sub Adapter	Programmer Version
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SEIKO

S-27C256A	E514	32K x8	28		-
S-27C512A	E613	64K x8	28		-
S-27C1000A	E782	128K x8	32		2.2
S-27C4000	E931	512K x8	32		2.2

SGS-THOMSON

M28F410	D915	512K x8	-	H910-13	H910-19	2.2
M28V410	D915	512K x8	-	H910-13	H910-19	2.2
M28F420	D916	512K x8	-	H910-13	H910-19	2.2
M28V420	D916	512K x8	-	H910-13	H910-19	2.2
M27C801	EA23	1M x8	32			2.2
M27C160	EB12	1M x16	42			2.2

SST

29EE512	D617	64K x8	32			2.2
29EE010	D734	128K x8	32			2.2

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TMS28F200BZ-T	D814	256K x8	-	H910-13	H910-19	2.2
TMS28F200BZ-B	D815	256K x8	-	H910-13	H910-19	2.2
TMS28F400BZ-T	D917	512K x8	-	H910-13	H910-19	2.2
TMS28F400BX-B	D918	512K x8	-	H910-13	H910-19	2.2

WSI

WS57C45	E11B	2K x8	24			2.13
WS57C010F	E751	128K x8	32			2.13