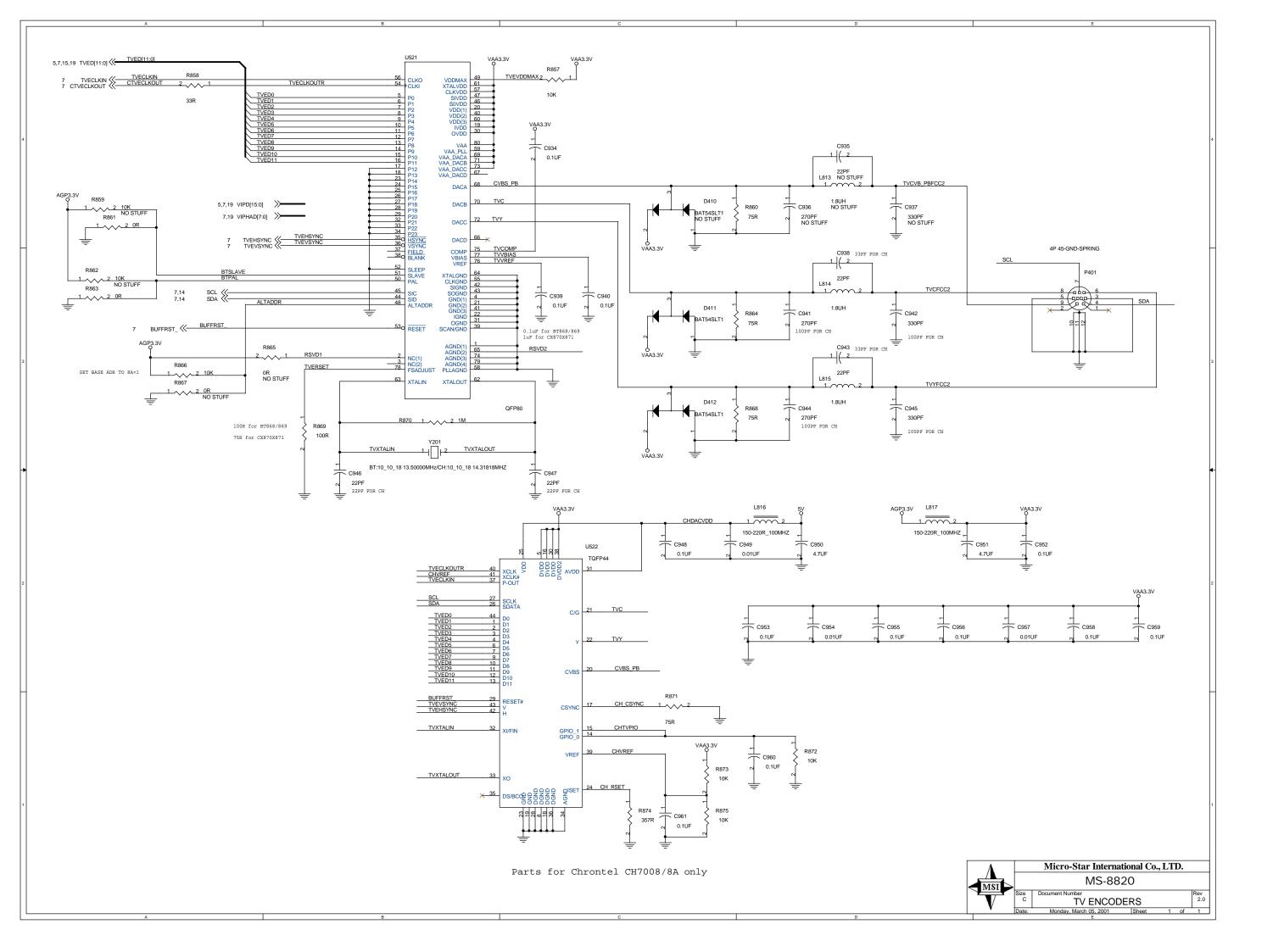
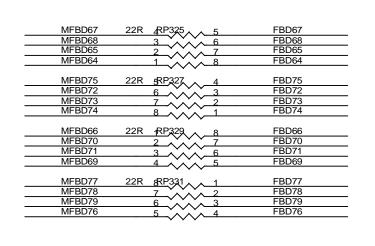


| Micro-Star International Co., LTD. | MS-8820 | Size | Document Number | NV15 BASE POWER SOLUTION | Poster | Monday, March 05, 2001 | Sheet | 1 | of | 1





MFBD95	22R 4 RB324 5	FBD95
MFBD91	3	FBD91
MFBD92	3 0 7	FBD92
MFBD94	1 00 8	FBD94
MFBD84	22R 5 RP326, 4	FBD84
MFBD83	221\\ 5\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	FBD83
 MFBD85	$\frac{0}{7}$	FBD85
MFBD86	8 00 1	FBD86
MFBD81	22R 8 RR328 1	FBD81
MFBD82	7 ~~~ 2	FBD82
MFBD80	6 4 4 3	FBD80
MFBD87	5 4	FBD87
MFBD88	22R 1 RP330, 8	FBD88
MFBD90	2 1 7	FBD90
MFBD89	3 4 4 6	FBD89

FBD[127:0] 8,11 | FBDQM[15:8] 8

MFBD97	22R 5 RP332 4	FBD97
MFBD96	6 3	FBD96
MFBD98	7 2	FBD98
MFBD100	8 1	FBD100
MFBD108	22R 5 RP334 4	FBD108
MFBD110	6 3	FBD110
MFBD109	7 2	FBD109
MFBD111	8 1	FBD111
MFBD103	22R 8 RP336 1	FBD103
MFBD101	7 2	FBD101
MFBD102	6 3	FBD102
MFBD99	5 4	FBD99
MFBD104	22R 1 RP338 8	FBD104
MFBD105	2 7	FBD105
MFBD107	3 7	FBD107
MFBD106	6 4 7 5	FBD106

MFBD115	22R 4 RP3333 5	FBD115
MFBD114	3 4 4 6	FBD114
MFBD113	2 ~ ~ ~ 7	FBD113
MFBD112	1 0 0 8	FBD112
		
MFBD119	22R 4 RP335 5	FBD119
MFBD118	3 4 4 6	FBD118
MFBD117	2 ~ ~ ~ 7	FBD117
MFBD116	1 4 4 8	FBD116
		
MFBD123	22R 8 RP337 1	FBD123
MFBD123 MFBD122	22R 8 RP337 1	FBD123 FBD122
	22R 8 RP337 1 7 2 6 AAA 3	
MFBD122	7 2	FBD122
MFBD122 MFBD121	7 2	FBD122 FBD121
MFBD122 MFBD121	7 2	FBD122 FBD121
MFBD122 MFBD121 MFBD120	7 2 6 3 5 4	FBD122 FBD121 FBD120
MFBD122 MFBD121 MFBD120 MFBD126	7 2 6 3 5 4	FBD122 FBD121 FBD120 FBD126
MFBD122 MFBD121 MFBD120 MFBD126 MFBD125	7 2 6 3 5 4 22R 8 RR339 1 7 2	FBD122 FBD121 FBD120 FBD126 FBD125

MFBDQM11	R384 1 4 4 2 22R	FBDQM11
		· · · · · · · · · · · · · · · · · · ·
MFBDQM10	R385 1 2 22R	FBDQM10
MFBDQM9	R386 1 2 22R	FBDQM9
MFBDQM8	R387 1 2 22R	FBDQM8
MFBDQM14	R388 1 2 22R	FBDQM14
MFBDQM15	R389 1 2 22R	FBDQM15
MFBDQM12	R390 1 2 22R	FBDQM12
MFBDQM13	R391 1 2 22R	FBDQM13



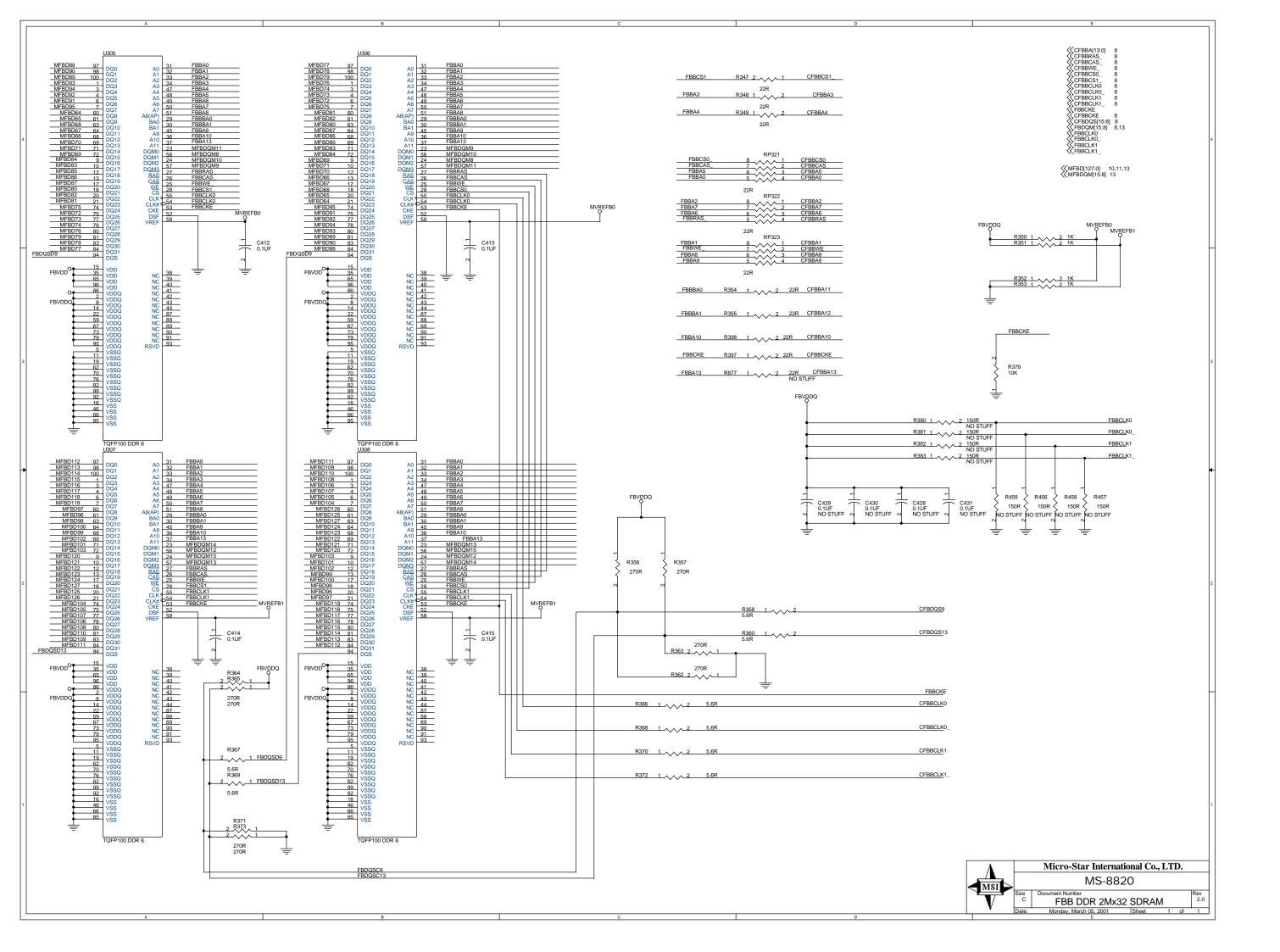
Micro-Star International Co., LTD.

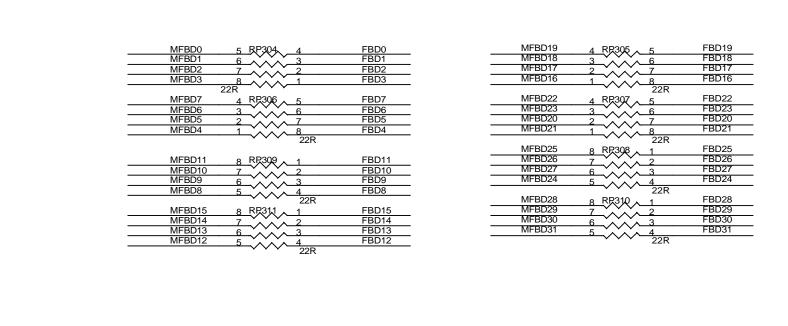
Rev 2.0

MS-8820

Bize Document Number FBB DDR 2Mx32 SDRAM TERM

Date: Monday, March 05, 2001 Sheet 1 of





MFBD[127:0] 10,12,13
MFBDQM[7:0] 10

MFBD32	4 RR312 5	FBD32
MFBD33	3 4 4 6	FBD33
MFBD39	2	FBD39
MFBD38	1 0 0 8	FBD38
-	22R	
MFBD37	4 RR314 5	FBD37
MFBD36	3 4 4 6	FBD36
MFBD35	2 7 7	FBD35
MFBD34	1	FBD34
•	22R	
MFBD51	8 RR316 1	FBD51
MFBD50	7	FBD50
MFBD49	6	FBD49
MFBD48	5 4	FBD48
	22R	
MFBD55	8 RR318 1	FBD55
MFBD54	7	FBD54
MFBD52	6 0 3	FBD52
MFBD53	5 4	FBD53
	22R	

MFBD41	4 RR313 5	FBD41
MFBD44	3 4 4 6	FBD44
MFBD42	2	FBD42
MFBD40	1 0 0 8	FBD40
-	22R	
MFBD45	4 RR315 5	FBD45
MFBD47	3 4 4 6	FBD47
MFBD46	2 7 7	FBD46
MFBD43	1	FBD43
	22R	
MFBD59	8 RR317 1	FBD59
MFBD57	7	FBD57
MFBD58	6	FBD58
MFBD56		
IVIFDUOG	5 ^ ^ 4	FBD56
IVIFBD30	5	FBD56
MFBD60		FBD56 FBD60
	22R	
MFBD60	22R	FBD60
MFBD60 MFBD61	8 RP319 1 7 2	FBD60 FBD61

MFBDQM2	R339 1 2 22R	FBDQM2
	* *	
MFBDQM3	R340 1 2 22R	FBDQM3
MFBDQM0	R341 1 2 22R	FBDQM0
IVII DD QIVIO	7011	1 DD QIVIO
MFBDQM1	R342 1 2 22R	FBDQM1
	• •	
MFBDQM4	R343 1 2 22R	FBDQM4
	* *	
MFBDQM6	R344 1 2 22R	FBDQM6
	• •	
MFBDQM5	R345 1 2 22R	FBDQM5
	* *	
MFBDQM7	R346 1 2 22R	FBDQM7



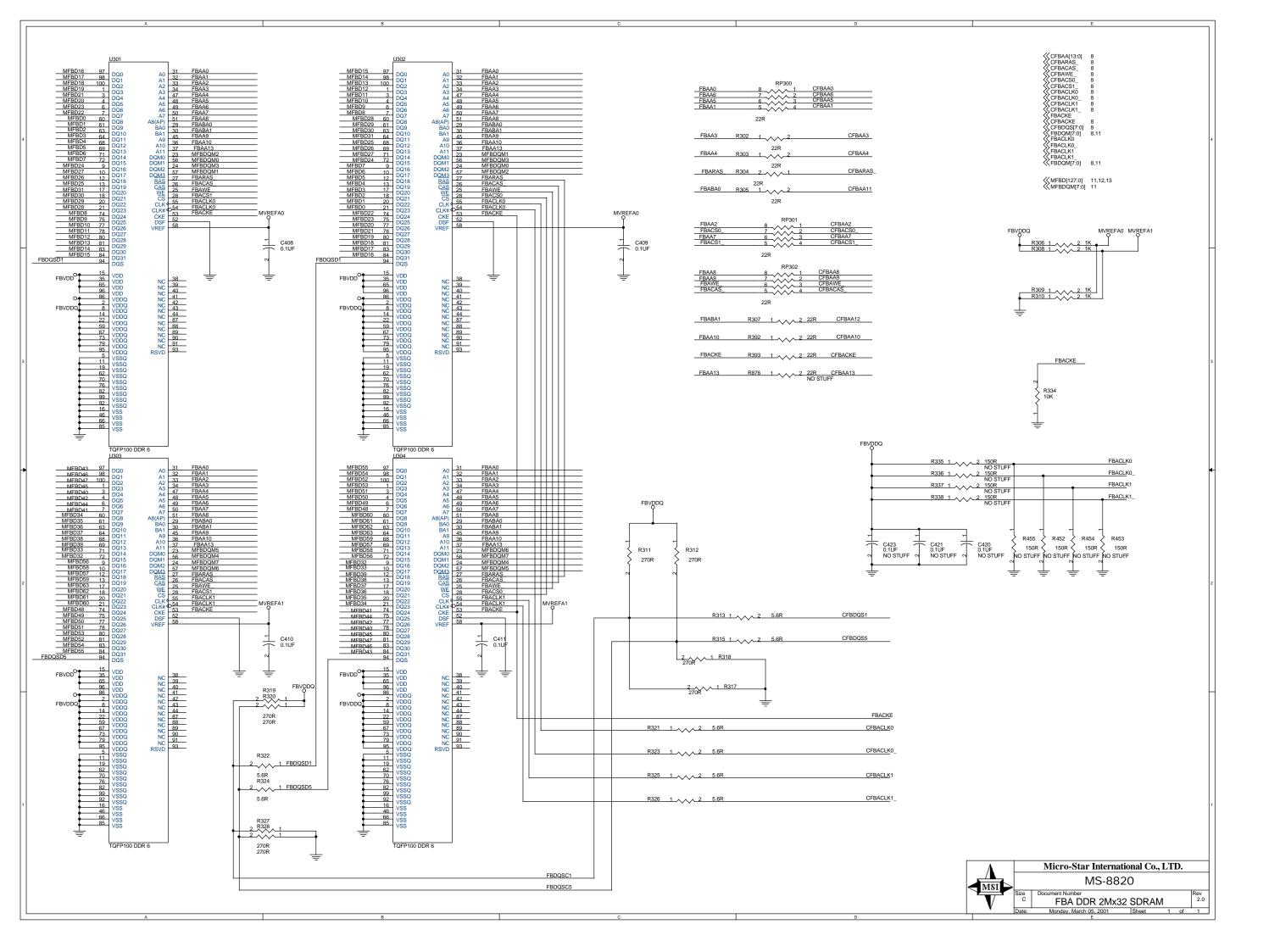
Micro-Star International Co., LTD.

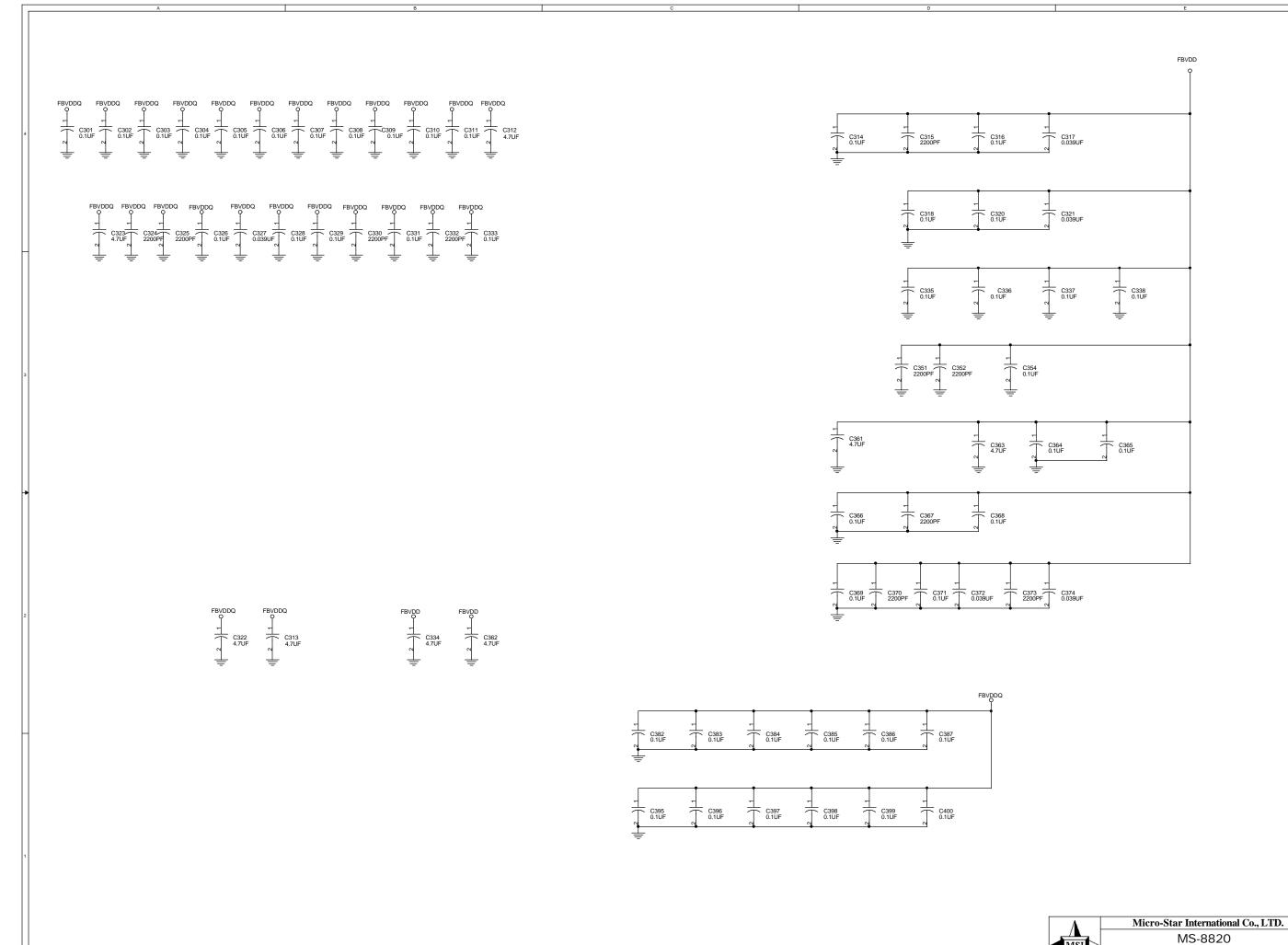
Rev 2.0

MS-8820

B Document Number FBA DDR 2Mx32 SDRAM TERM

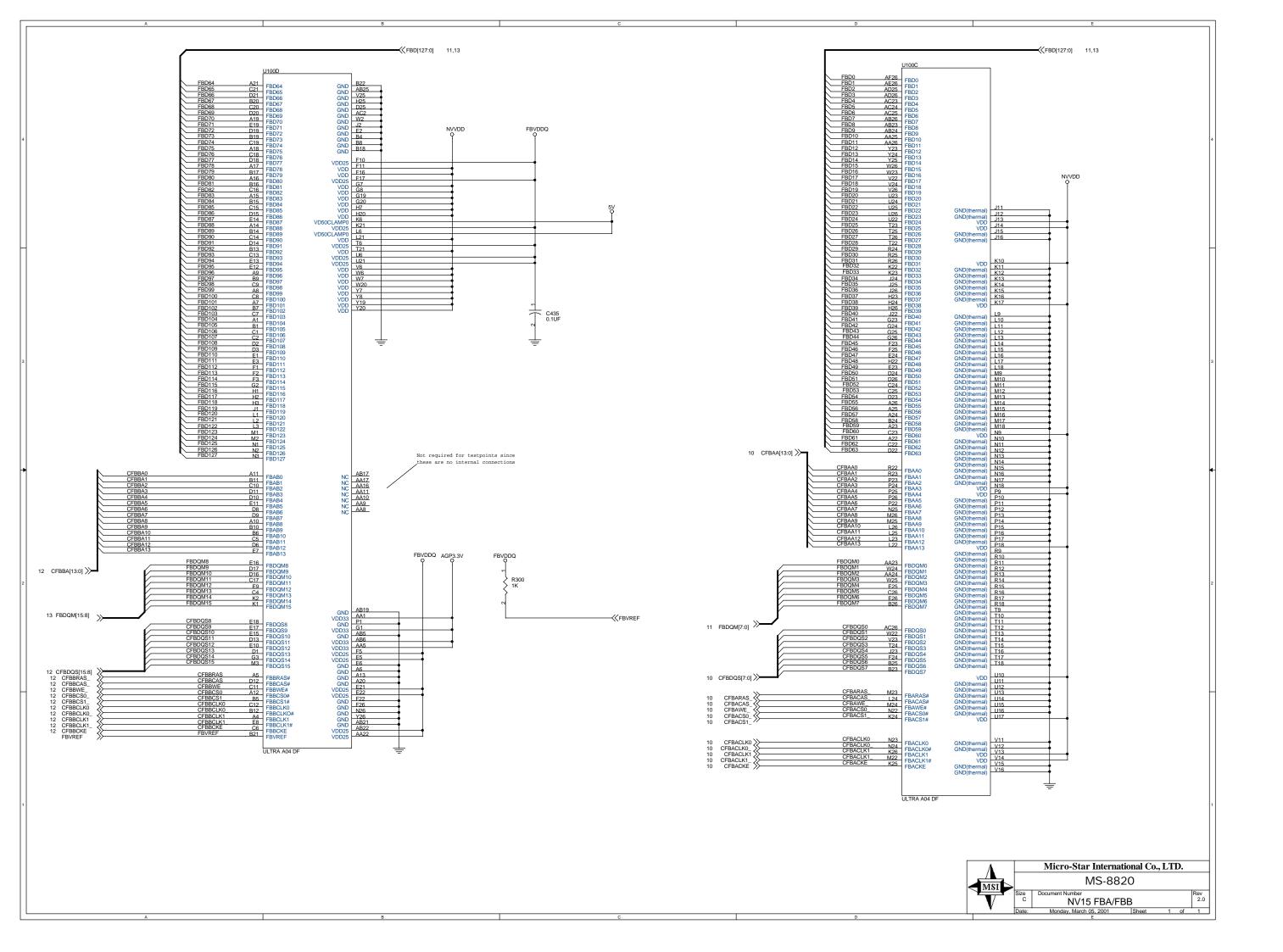
Date: Monday, March 05, 2001 Sheet 1 of

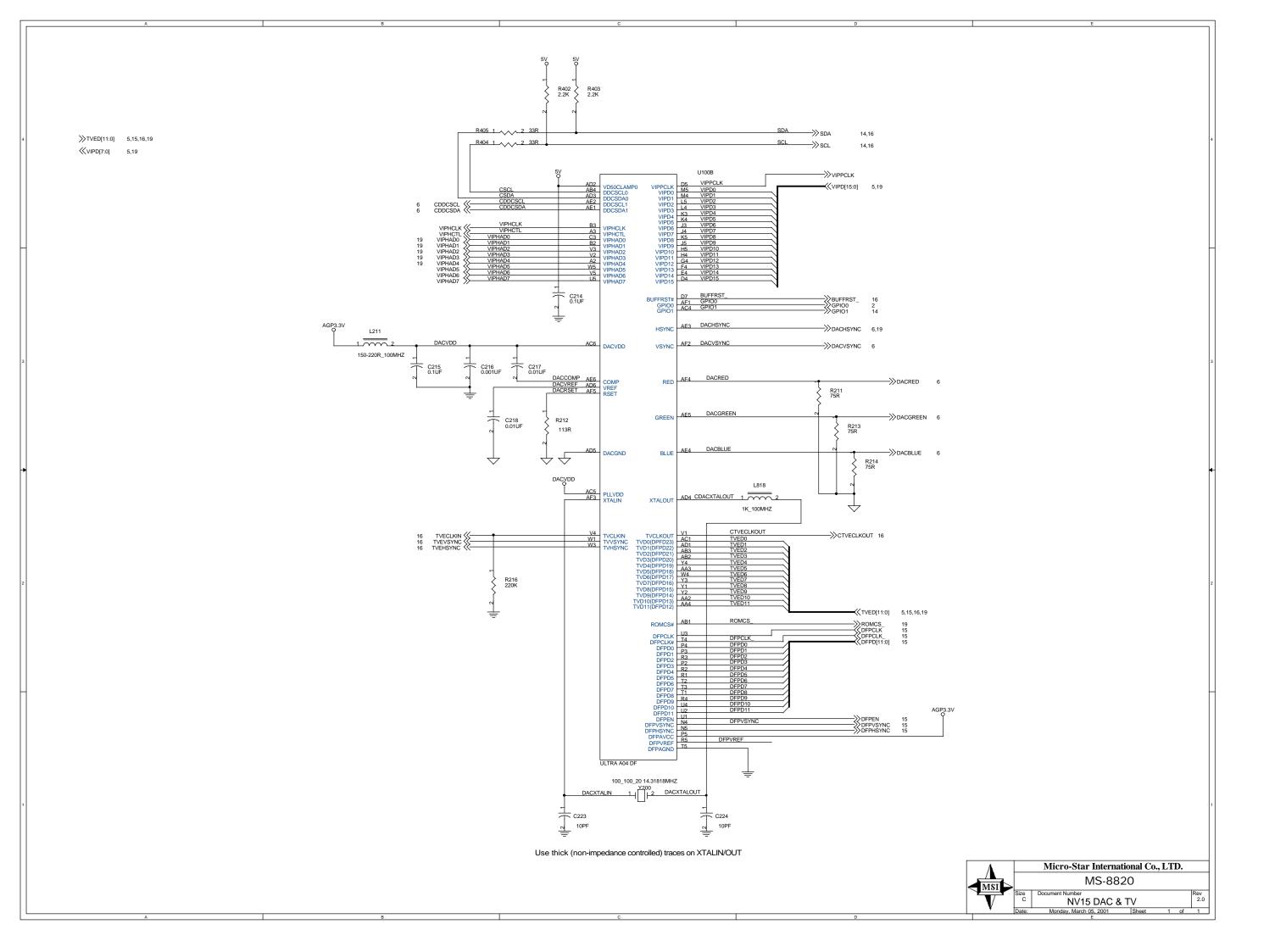


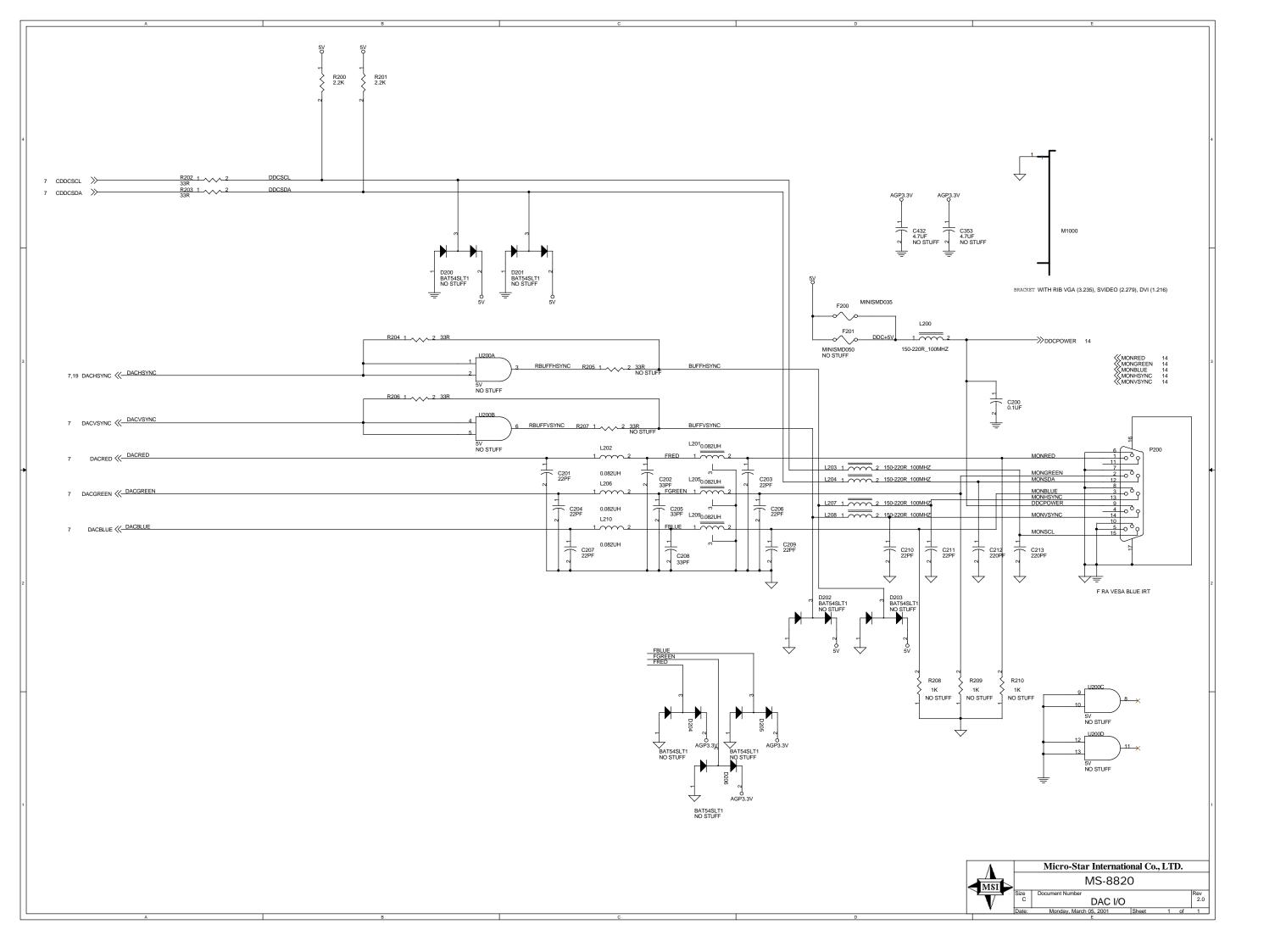


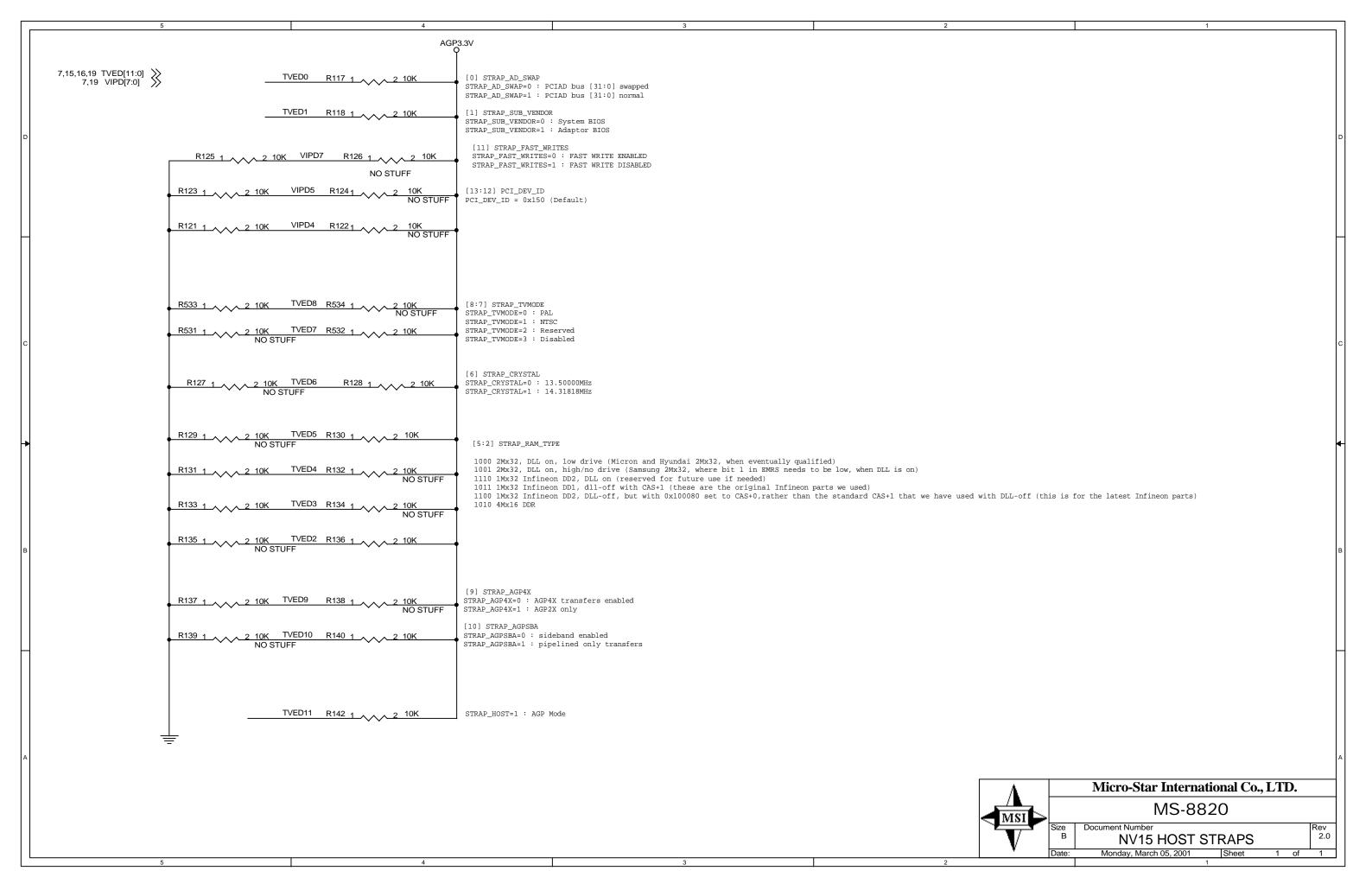
Document Number
FB DECOULPING

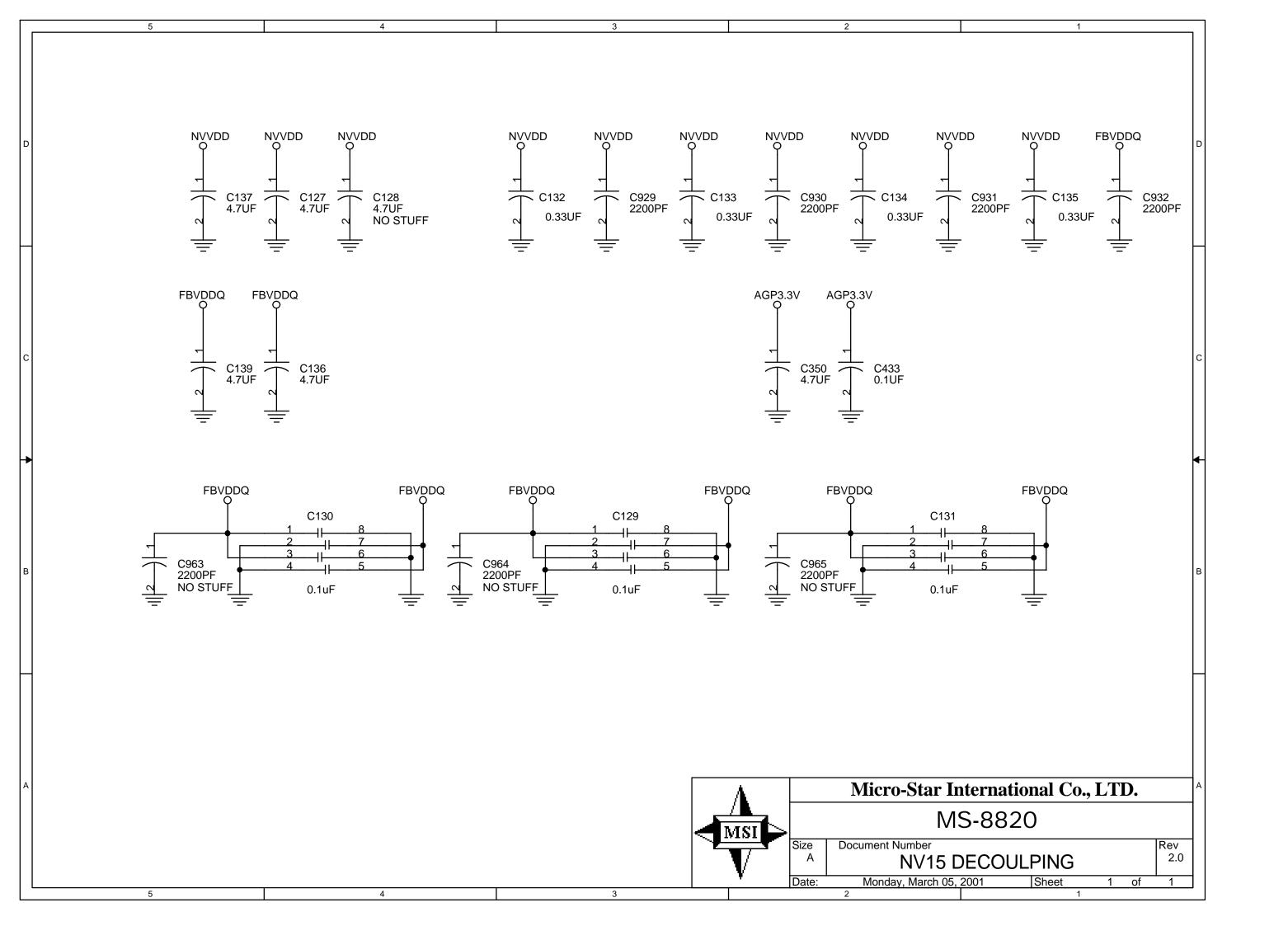
Rev 2.0

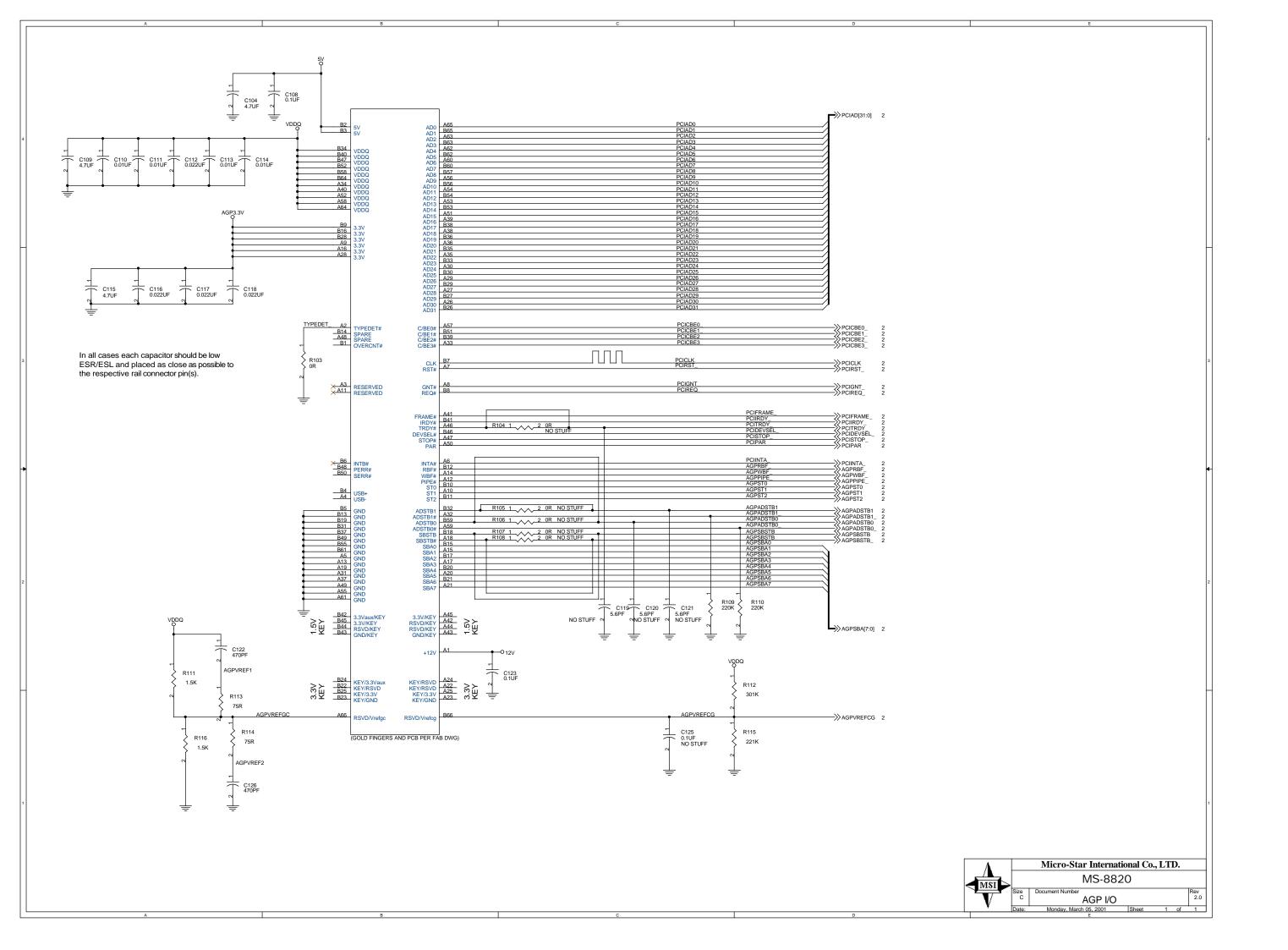


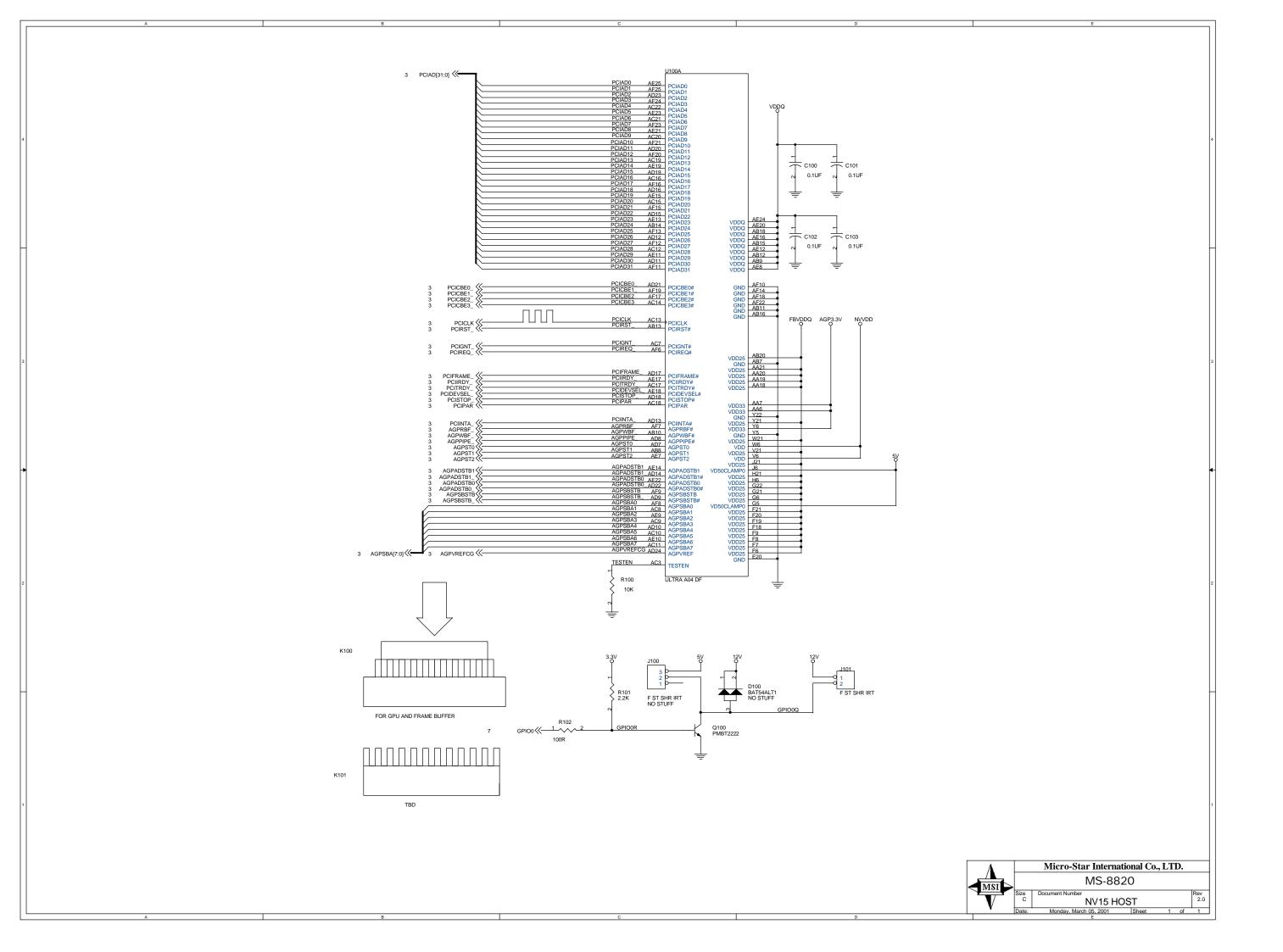












NV15, 1/2MX32 DDR, RGB, TV_OUT, VIDEO_IN, AGP4X.

PCI DEVICE ID 0X0=0X150.

Design Notes:

B00:FIXED TMDS CLKs CONNECTIONS.

B00:ADDED 4MX32 SUPPORT.

B00:Corrected memory configuration resistors.

B00: Changed C809 to 4.7UF.

B00:Changed R811 from 100R to 105R

B00:C128 changed to no stuff

B00:Removed 4mx32 function (R876, R877= NO STUFF)

