


MS8853

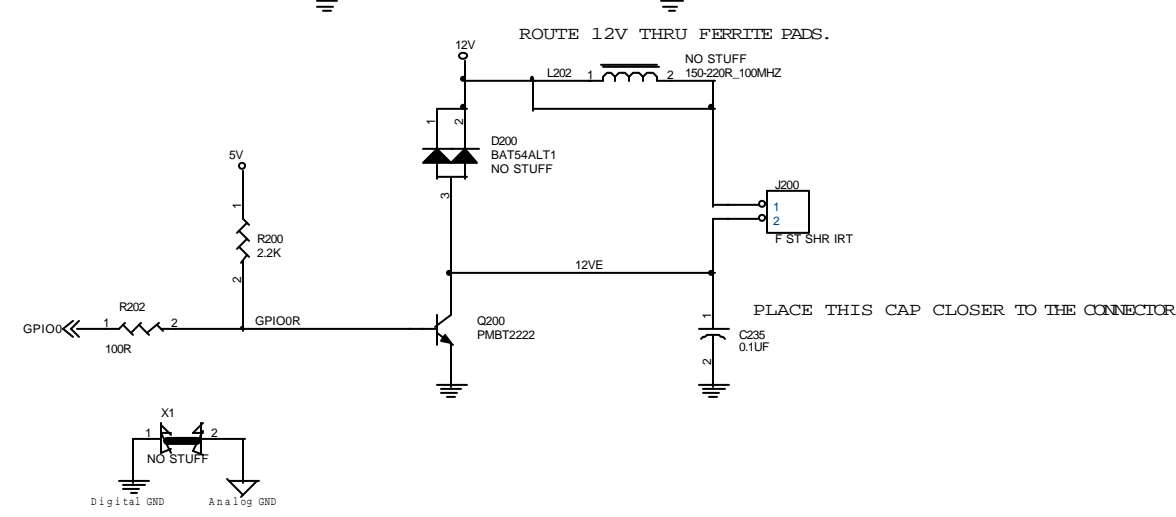
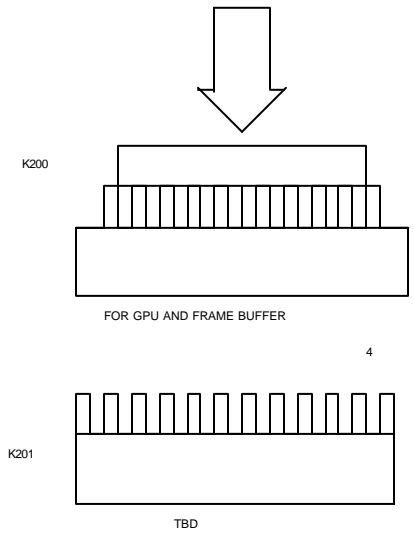
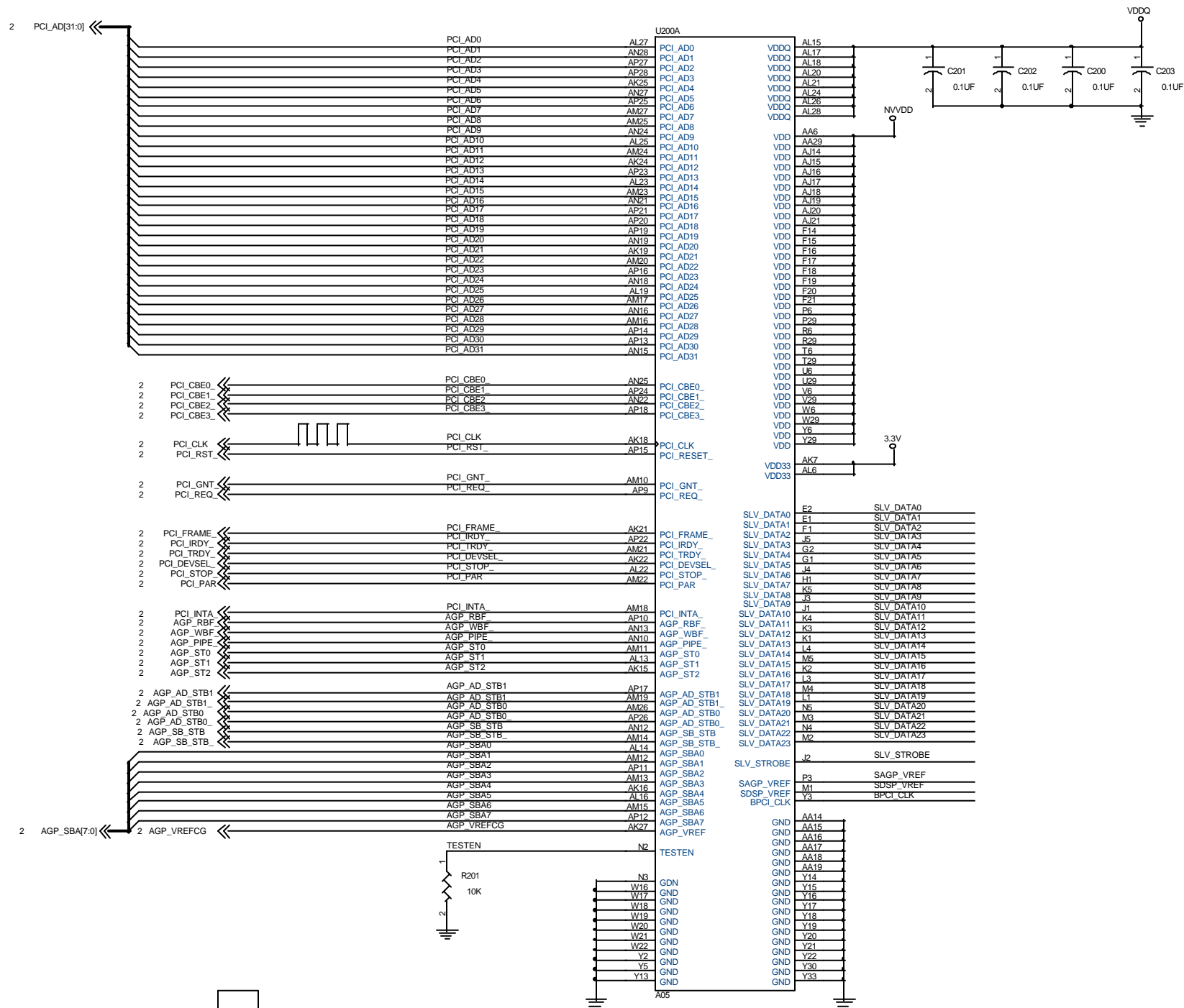
GF3-Ti 500, 4MX16 DDR, RGB, EXTERNAL DVI-I, TV-DOWN, TV IF , AGP4X
PCI DEVICE ID 0X0=0X200 FOR NV20.

Title	Section	Page
Cover Sheet	0	1
Bus I/O	1.1	2
NV20 Host	2.1	3
NV20 DAC/TV/TMDS	2.2	4
NV20 Decoupling	2.3	5
NV20 Host Strapping	2.4	6
DAC Connector	3.1	7
NV20 FBA/B/C/D	4.1	8
4MX16 DDR Decoupling	4.2	9
FB 4MX16 DDR	4.3 & 4.4	10, 11
ROM & VIDEO IF	5.1	12
DVI Controllor	6.1	13
DVI Connector	6.2	14
TV-Out	7.1	15
NV20 Power	8.1	16

NVVDD SET TO: 1.67V
FBVDD SET TO: 3.63V
FBVDDQ SET TO: 2.59V

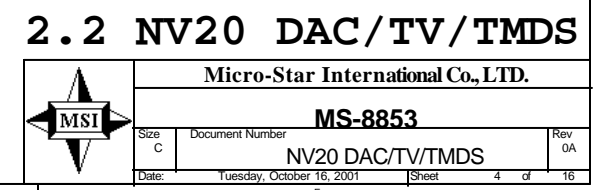
0 Cover Sheet

			Micro-Star International Co.,LTD.	
			MS-8853	
Size	Document Number		Rev	
C	Cover Sheet		0A	
Date:	Tuesday, October 16, 2001	Sheet	1	of 16

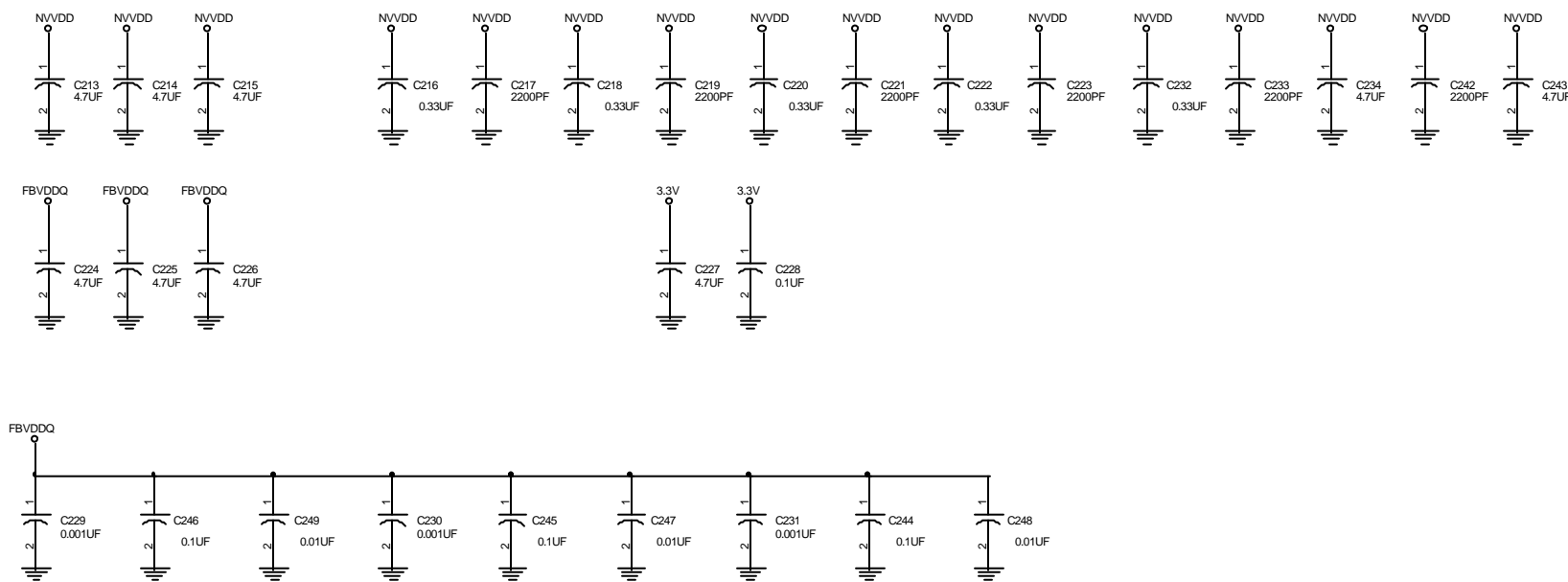


2.1 NV20 HOST

Micro-Star International Co., LTD.			
MS-8853			
Size	Document Number	Rev	
C	NV20 Host	0A	
Date:	Tuesday, October 16, 2001	Sheet	3 of 16

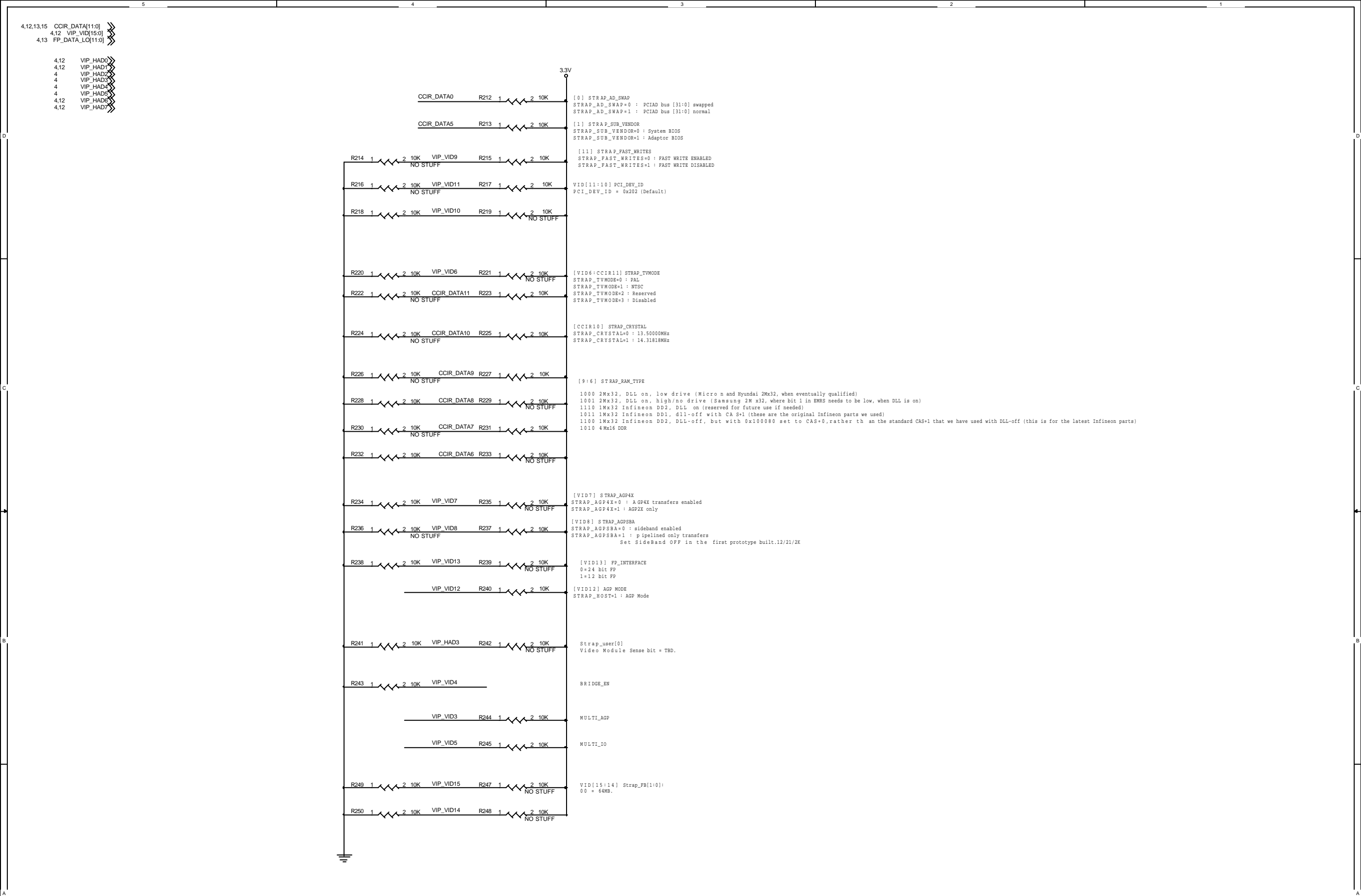


Use thick (non-impedance controlled) traces on XTALINOUT



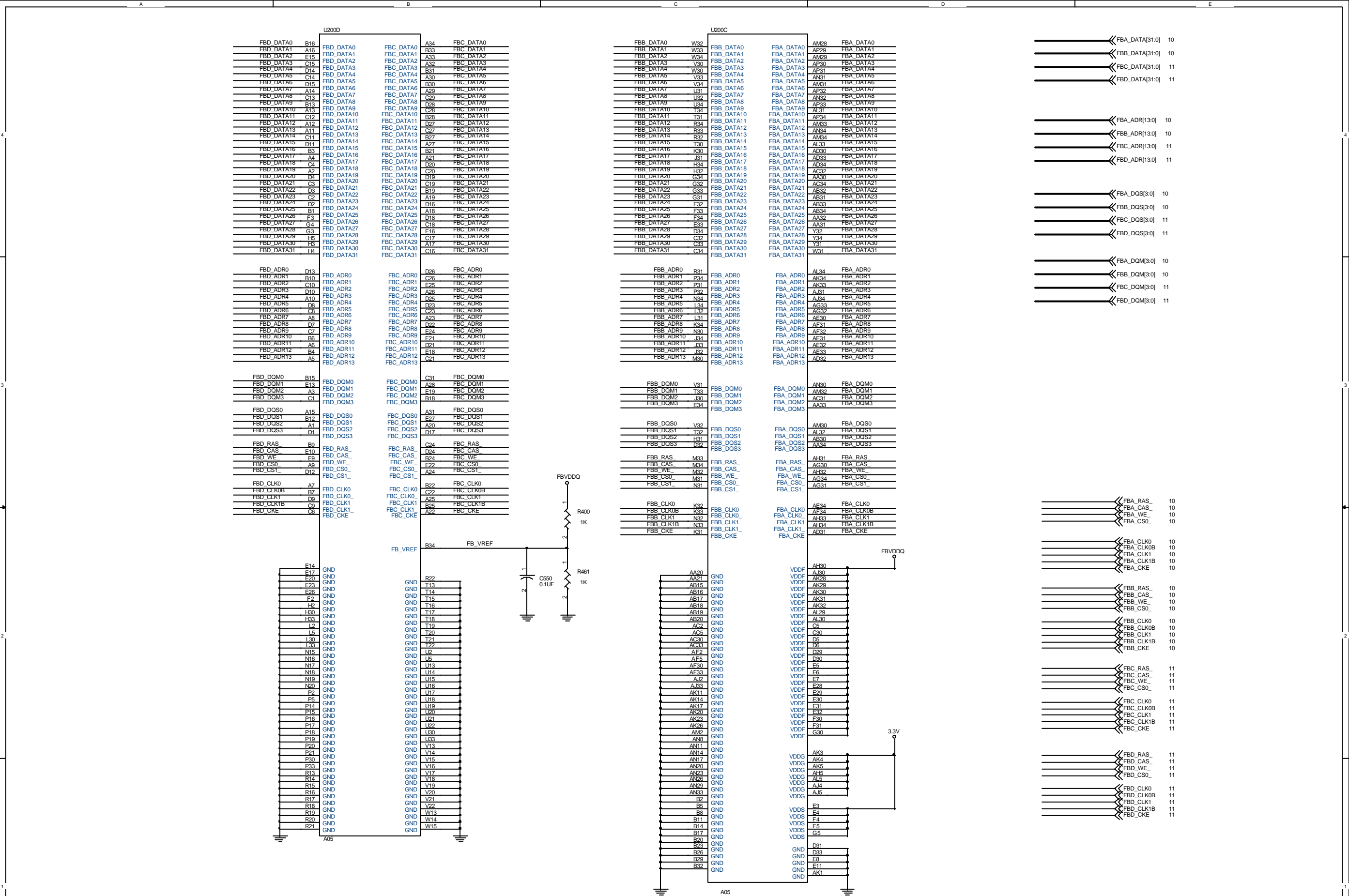
2.3 NV20 DECOUPLING

Micro-Star International Co., LTD.		
MS-8853		
Size C	Document Number NV20 Decoupling	Rev 0A
Date: Tuesday, October 16, 2001	Sheet 5 of 16	

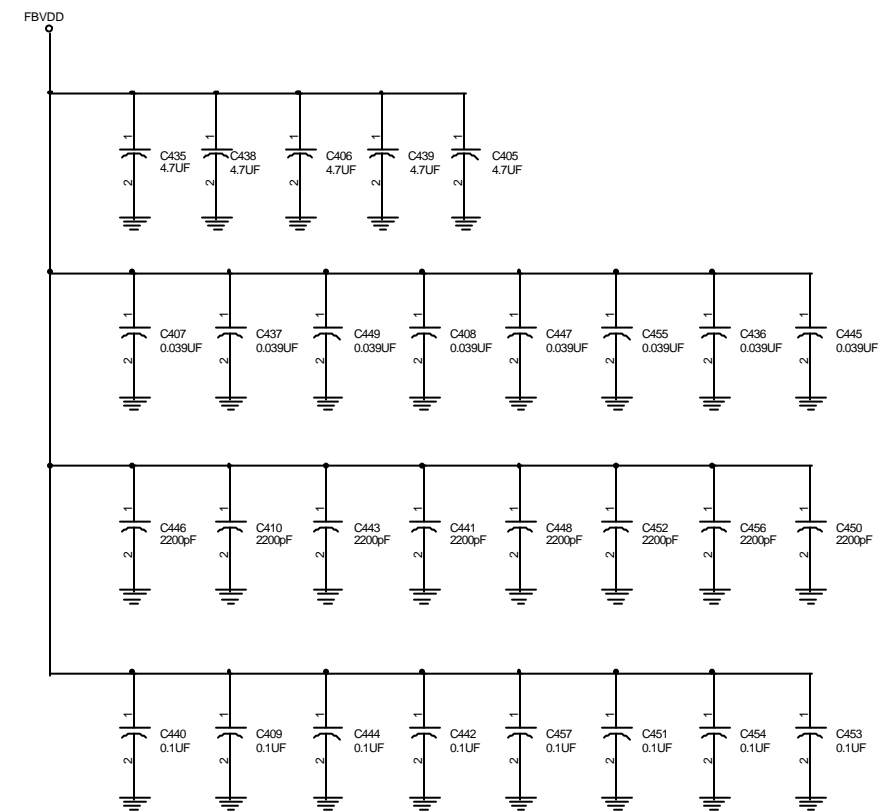
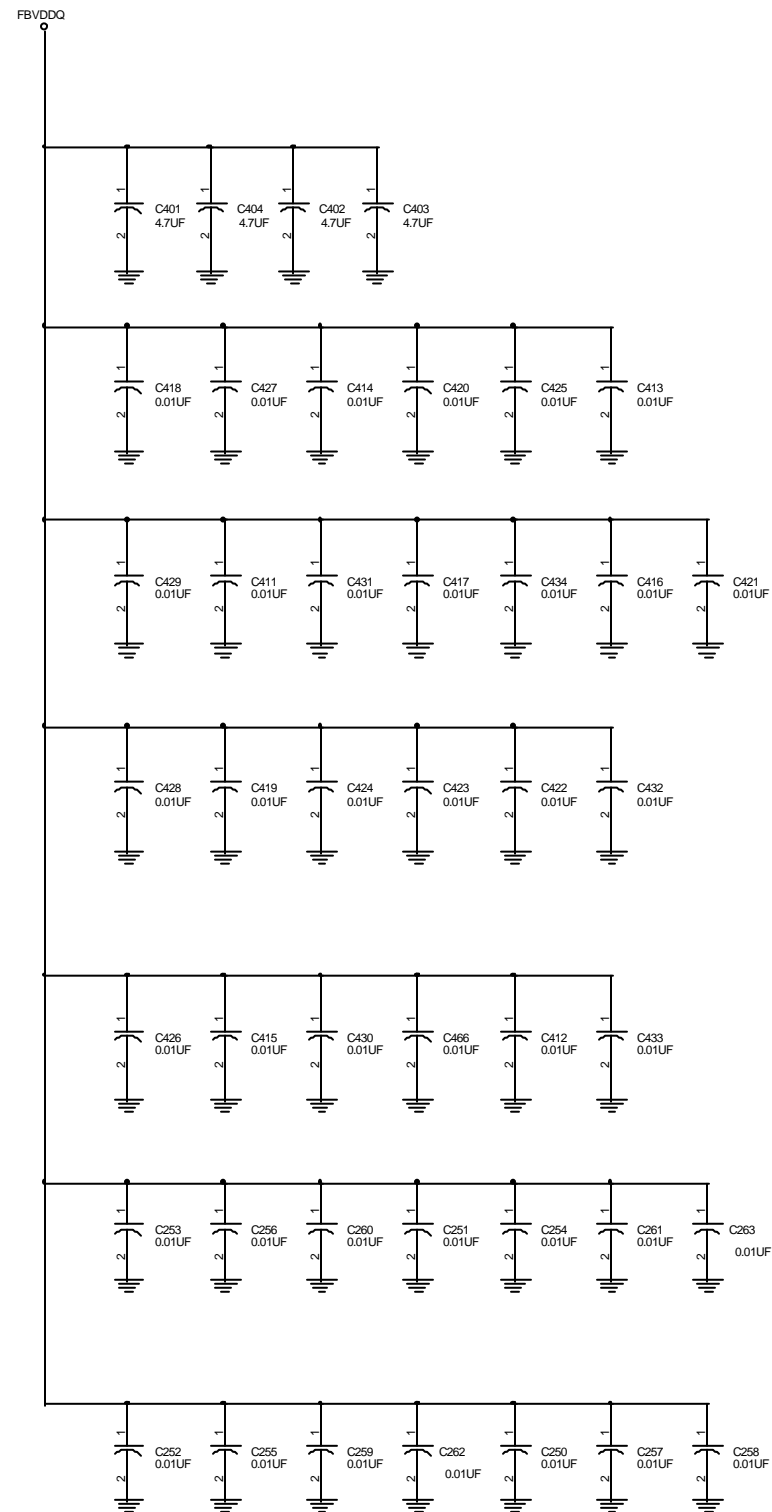


2.4 NV20 HOST STRAPS

Micro-Star International Co., LTD.			
MS-8853			
Size C	Document Number NV20 Host Strapping	Rev 0A	
Date:	Tuesday, October 16, 2001	Sheet	6 of 16

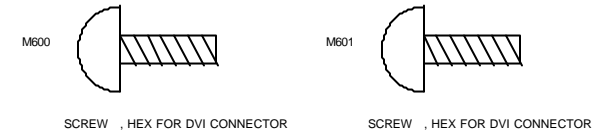
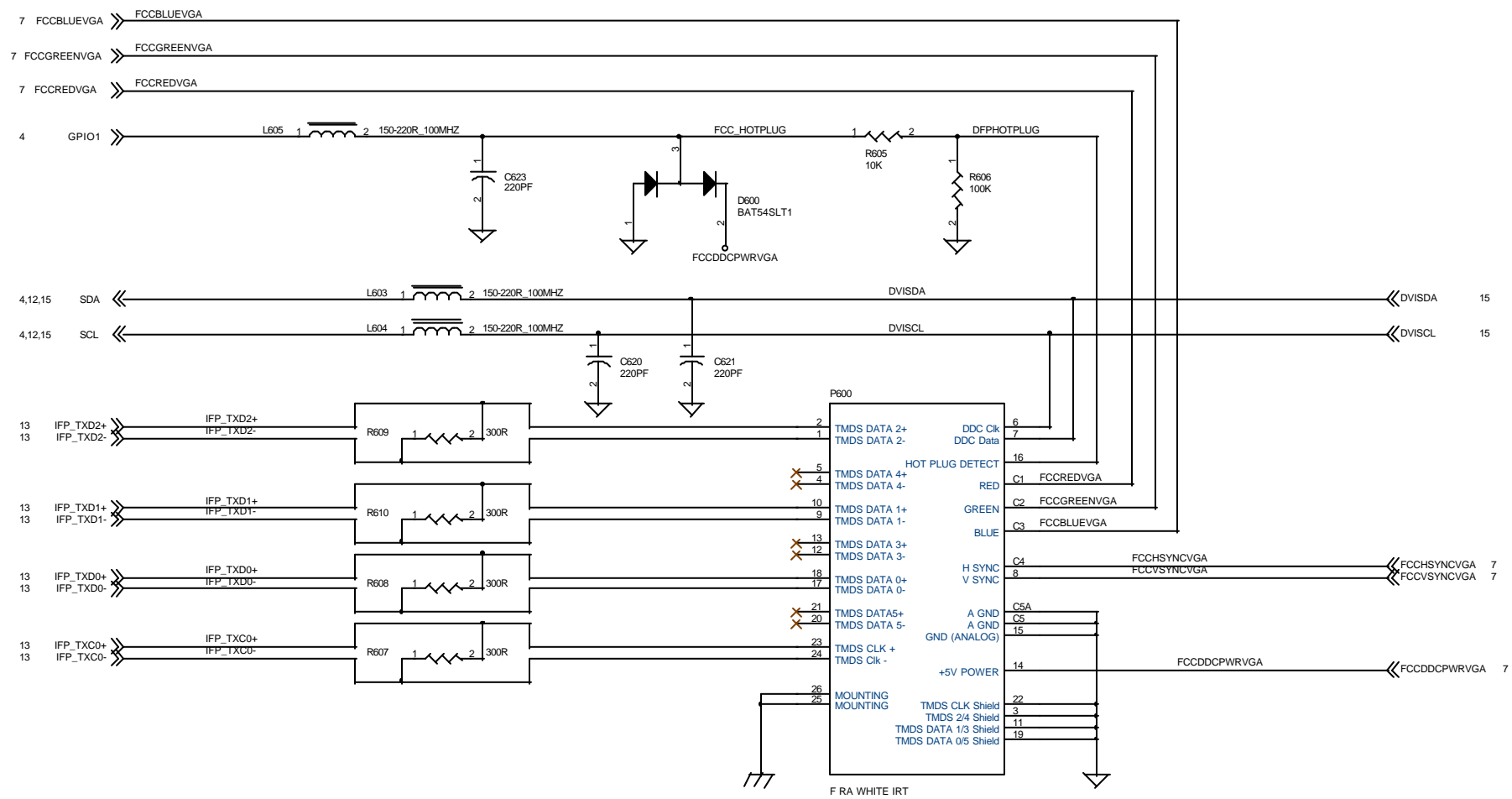


4.1 NV20 FBA/B/C/D



4.2 4MX16 DDR DECOUPLING

Micro-Star International Co., LTD.		
MS-8853		
Size C	Document Number 4MX16 DDR Decoupling	Rev 0A
Date: Tuesday, October 16, 2001	Sheet 9 of	16



6.1 DVI Connector

Micro-Star International Co., LTD.			
MS-8853			
Size	Document Number	Rev	
C	DVI Connector	0A	
Date:	Tuesday, October 16, 2001	Sheet	14 of 16



