


LCFC Confidential

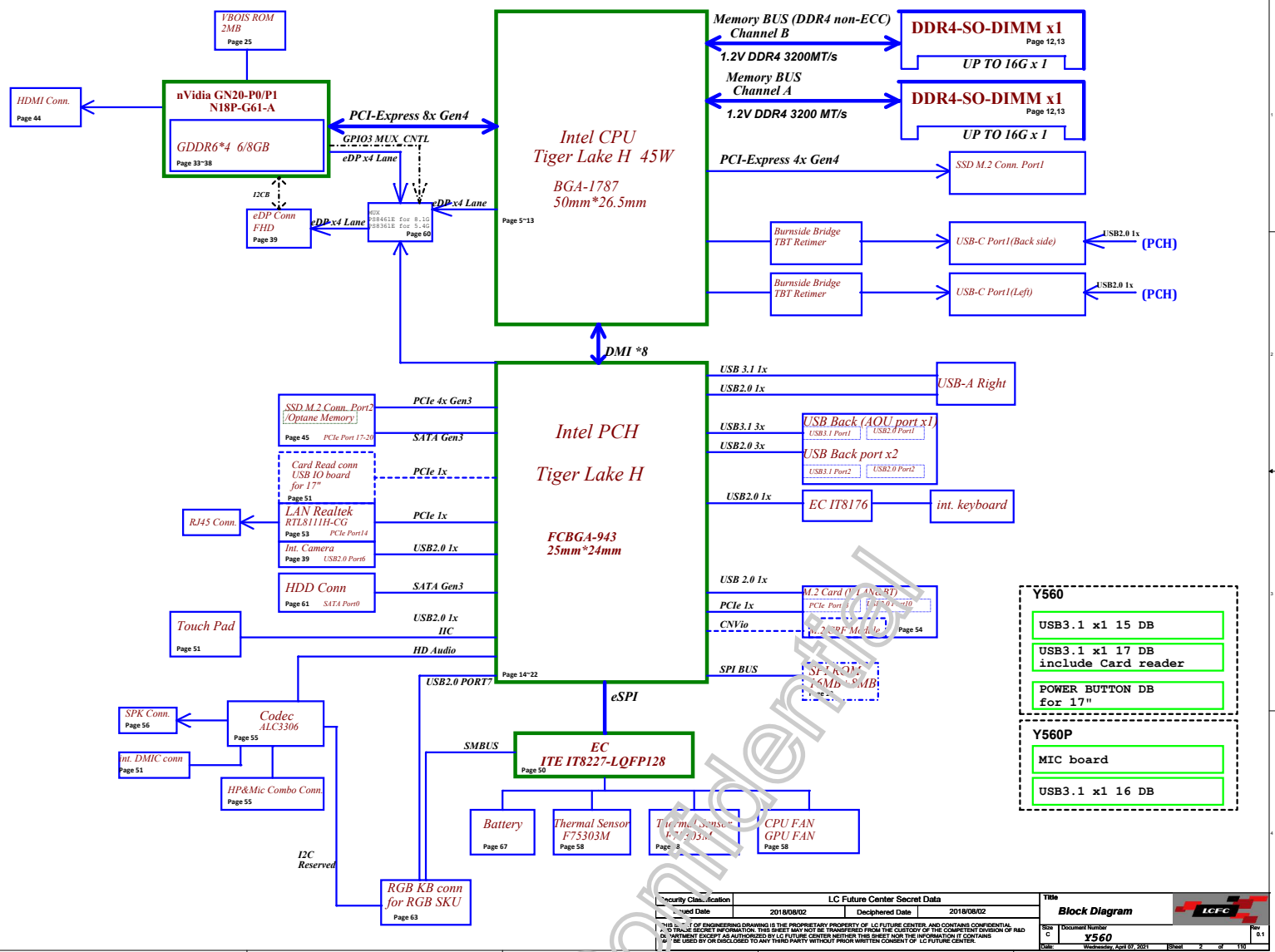
Y560 M/B Schematics Document

Tiger Lake H-Processor with DDR4 + NV GN20-E GPU

2020-10-10

REV: 0.1

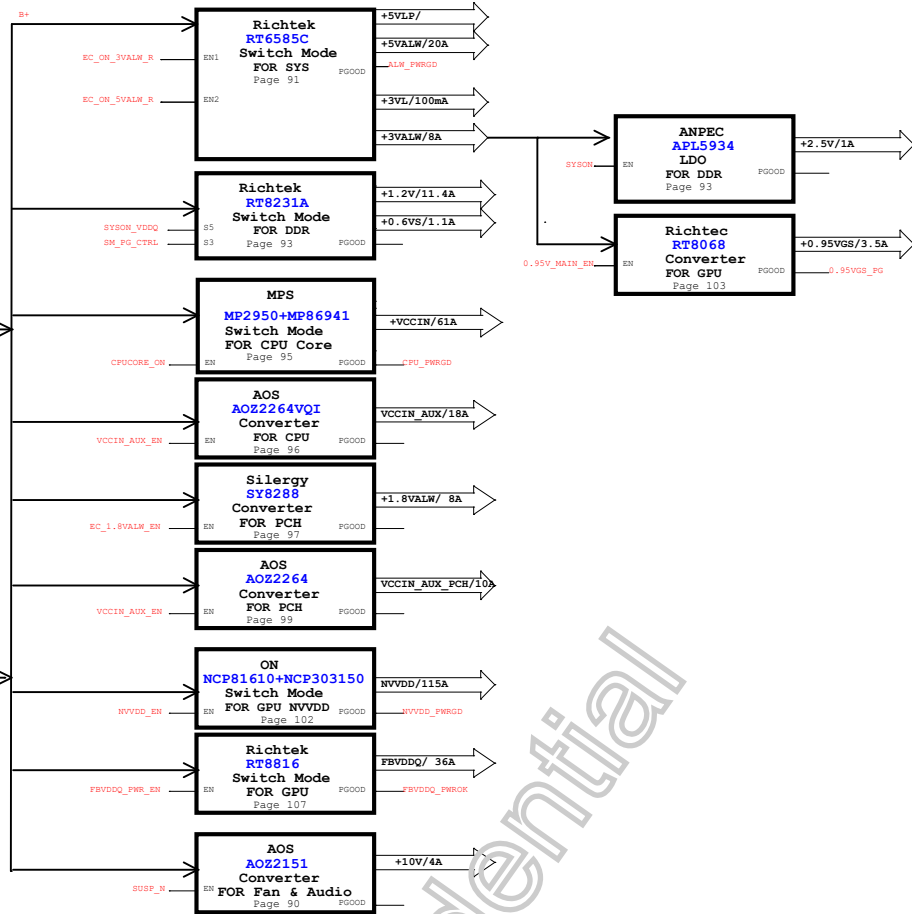
Security Classification	LC Future Center Secret Data		Title		
Issued Date	2018/08/02	Deciphered Date	2018/08/02	Cover Page	
<small>THIS SHEET OF ENGINEERING DRAWING IS THE PROPERTY OF LC FUTURE CENTER AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF RA DEPARTMENT EXCEPT AS AUTHORIZED BY LC FUTURE CENTER. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF LC FUTURE CENTER.</small>					
Size				Document Number	Rev 0.1
Custom				Y560	
Date				Wednesday, April 07, 2021	Sheet 1 of 110



Adaptor
100W/TYPEC
300W/Wall-Plug

TI
BQ24800RUYR
Battery Charger
Switch Mode
Page 89

Battery
Li-ion
60Wh/80Wh



Security Classification	LC Future Center Secret Data		Title
Issued Date	2020/09/16	Deciphered Date	2020/09/16
Power Diagram			Doc Number
Sheet 1 of 1			Y560 INTEL
Date			Rev

GN20x-P/N18P-G61-A GPIO

GPIO	I/O	GPIO Name	Function Description	Net name	I/O Termination
GPIO0	OUT	NVDD_PWM_VID	PWM Output to control NVDD	NVDD_PWM_VID	
GPIO1	OUT	GC6:GC6_FB_EN	FB Enable for GC6	FB_GC6_EN	(10K PD)
GPIO2	IN	GC6:GPU_EVENT*	Wake the GPU from GC6 state	GPU_EVENT*_R	(10K PU)
GPIO3	OUT	DISP_MUX_CNTL	Display MUX control signal	GPU_MUX_CNTL	(10K PD)
GPIO4	OUT	MSVDD_EN 1V8_MAIN_EN	GN20x-P GPU power sequencing for GC6 --MSVDD_EN N18P-G61-A 1V8_MAIN_EN	GPIO4_GC6_MSVDD_EN 1V8_MAIN_EN	(10K PU)
GPIO5	OUT	FRAME_LOCK*	Active low Frame Lock for NVSR panel	UNUSED	
GPIO6	OUT	NVDDO_PSI*	Phase Shedding, NVDDO_PSI	NVDDO_PSI	(10K PU) RSV0
GPIO7	OUT	LCD_BL_PWM	LCD Panel Backlight PWM	GPU_EDP_PWM	(100K PD)
GPIO8	OUT	MEM_VDD_CTL	Memory voltage Control	FBVDDQ_SEL	(10K PD)
GPIO9	I/O	THERM_ALERT*	Active Low Thermal Alert	VGA_ALERT#	(10K PU)
GPIO10	OUT	MEM_VREF_CTL	Memory VREF Control	MEM_VREF_CTL	(100K PD)
GPIO11	OUT	LCD_VDD	LED Panel power enable	GPU_EDP_ENVDD	(10K PD)
GPIO12	IN	PWR_LEVEL	AC power detect or power supply overdraw input	VGA_AC_DET_R	(10K PU)
GPIO13	IN	IGPU_BL_EN	Signal indicating when the IGPU has EN the BL	IGPU_EDP_ENBKLL	(100K PU)
GPIO14	IN	HPD_IFPA*	Hot Plug Detect for IFPA	IFPA_HPDP	(10K PU)
GPIO15	IN	HPD_IFPB*	Hot Plug Detect for IFPB	IFPB_HPDP	(10K PU)
GPIO16	OUT	DISP_MUX_PWM_CNTL	Allows switching the PWM between IGPU & DGPU	PWM_SW_SELECT	(10K PD)
GPIO17	IN	HPD_IFPD*	Hot Plug Detect for IFPD	GPU_EDP_HPDP	(10K PU)
GPIO18	IN	HPD_IFPE*	Hot Plug Detect for IFPE	UNUSED	
GPIO19	OUT	UNUSED			
GPIO20	OUT	UNUSED			
GPIO21	OUT	LCD_BLEN	LCD Panel Backlight Enable	GPU_EDP_ENBKLL	(100K PD)
GPIO22	OUT	ADC_MUX_SEL	OVRM MUX Input SEL	ADC_MUX_SEL	(2.2K PU)
GPIO23	OUT	UNUSED	UNUSED		test point
GPIO24	IN	HPD_IFPF*	Hot Plug Detect for IFPF	UNUSED	
GPIO25	OUT	FBVDDO_PSI	Turns off phases of the Frame buffer power supply	FBVDDQ_PSI	test point
GPIO26	OUT	ROM_WP* FP_FUSE	GN20x-P Connect to WP pin of the GPU EEPROM N18P-G61-A Control FP_FUSE	GPIO26_ROM_WP GPIO26_FP_FUSE	(10K PD)
GPIO27	IN	HPD_IFPC*	Hot Plug Detect for IFPC	IFPC_HPDP	(10K PU)

H=High: Tied to 1.8V
M=Middle: Tied to 0.9V
L=Low: Tied to 0V

STRAP2	STRAP1	STRAP0	RAMCFG[4:0]	GN20x-P/N18P-G61-A VRAM
L	L	L	0 (0x0000)	Samsung K4Z803258C-HC14
L	L	H	1 (0x0001)	Micron MT61K256M32JE-14-A
L	H	L	2 (0x0002)	Hynix Only For GN20x-P H86C8H24A1R-SSC
L	H	H	3 (0x0003)	
H	L	L	4 (0x0004)	
H	L	H	5 (0x0005)	
H	H	L	6 (0x0006)	
H	H	H	7 (0x0007)	
L	L	M	8 (0x0008)	
L	M	L	9 (0x0009)	
L	M	H	10 (0x000A)	
L	H	M	11 (0x000B)	
M	L	L	12 (0x000C)	
M	L	H	13 (0x000D)	

FS_OVERT# FUNCTION ENABLE

ROM_SO	ROM_SI	ROM_SCLK	SOR_EXPOSED[3:0]
L	L	L	N18P-G61-A ENABLE OVERT*
L	L	H	GN20x-P ENABLE OVERT*

BOM NOTE:

1.BOM Structure:
GN20x-P1/P0-->GN20@
N18P-G61-A-->N18P@

2.1.0V GS voltage different: need Power setting
GN20x-P1/P0-->0.95V
N18P-G61-A-->1.0V

3.VBIOS ROM partnumber need BOM control
GN20x-P1/P0-->2MB PN:SA00000AU500
N18P-G61-A-->1MB PN:SA000000E00

4.ROM_SO,ROM_SI,ROM_CLK setting
GN20x-P1/P0-->LLH
N18P-G61-A-->LLL

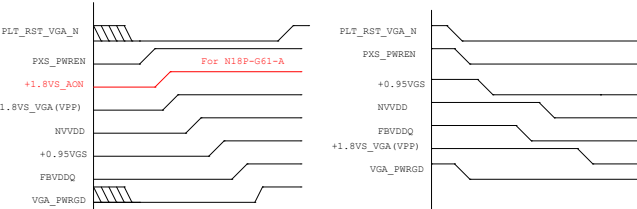
5.VRAM FB(RG702 STUFF package 0402)
GN20x-P1/P0 :2.49K ohm (PN:SD03424918J)
N18P-G61-A: 49.9 ohm (PN:SD034499A8J)

6.+FUSE 1V8
GN20x-P1/P0 :RG1200:10K CG1104:1U
N18P-G61-A: RG1200:2.21K CG1104:2.2U

BOM Structure Control Table

BOM Structure	BTO Item
0	Not stuff
OPT@	GN20-P1/P0 N18P-G61 Stuff
GN20@	GN20P1/P0 Stuff
N18P@	N18P-G61 Stuff

GN20x-P/N18P-G61-A Power Sequence



1. The ramp time for any rail must be more than 40us and is recommended to be less than 2ms.
2. It is recommended that the delay from 1V8 on to FBVDDQ/GPU_PWDN assertion not exceed 20ms.
3. The ramp-up overshoot should not exceed the silicon reliability limit voltage.
4. Power up NVDD must be 90s before FBVDDQ can ramp-up.
5. Refer to the JEDEC Memory SPDC for memory-related power sequencing.
7. FBVDDQ, USB_VDDP and 1V8_AON don't need power cycle for GC6

1. For G2086, VPS must be equal to or higher than FBVDDQ at all times/rise gate logic and discharge circuit as needed
2. All 3.3V devices that connect to the GPU must be ramp down before 1V8; GPU can NOT have any 3.3V leakage path after 1V8 power down.
3. Power down of FBVDDQ must be less than 10s before NVDDQ can start ramp-down.

STRAP5	STRAP4	STRAP3	SMB_ALT_ADDR	DEVID_SEL	PCIE_CFG	VGA_DEVICE
M	H	H	1	1	1	1
M	H	L	1	1	0	0
M	L	H	1	1	0	1
M	L	L	1	1	0	0
L	H	M	1	0	1	1
L	M	H	1	0	1	0
L	M	L	1	0	0	1
L	L	M	1	0	0	0
H	H	H	0	1	1	1
H	H	L	0	1	1	0
H	L	H	0	1	0	1
H	L	L	0	1	0	0
L	H	H	0	1	1	1
L	H	L	0	1	1	0
L	L	H	0	0	0	1 DEFAULT
L	L	L	0	0	0	0

- 1.SMB_ALT_ADDR ENABLE
0.SMB_ALT_ADDR DISABLE
1.DEVID_SEL REBRAND
0.DEVID_SEL ORIGINAL
1.PCIE_CFG LOW POWER
0.PCIE_CFG HIGH POWER
1.VGA_DEVICE ENABLE
0.VGA_DEVICE DISABLE

Security Classification	LCFC Highly Confidential Information		Title	
Classified Date	2018/08/02	Deciphered Date	2018/08/02	N18E VGA Notes List
THIS DOCUMENT OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF LC FUTURE CENTER, AND CONTAINS CONFIDENTIAL INFORMATION. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM LC FUTURE CENTER. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY LC FUTURE CENTER. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS SHALL BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF LC FUTURE CENTER.				LCFC
Doc C	Document Number	Y560	Rev	0.1
Date: Wednesday, April 07, 2021				Sheet 5 of 10

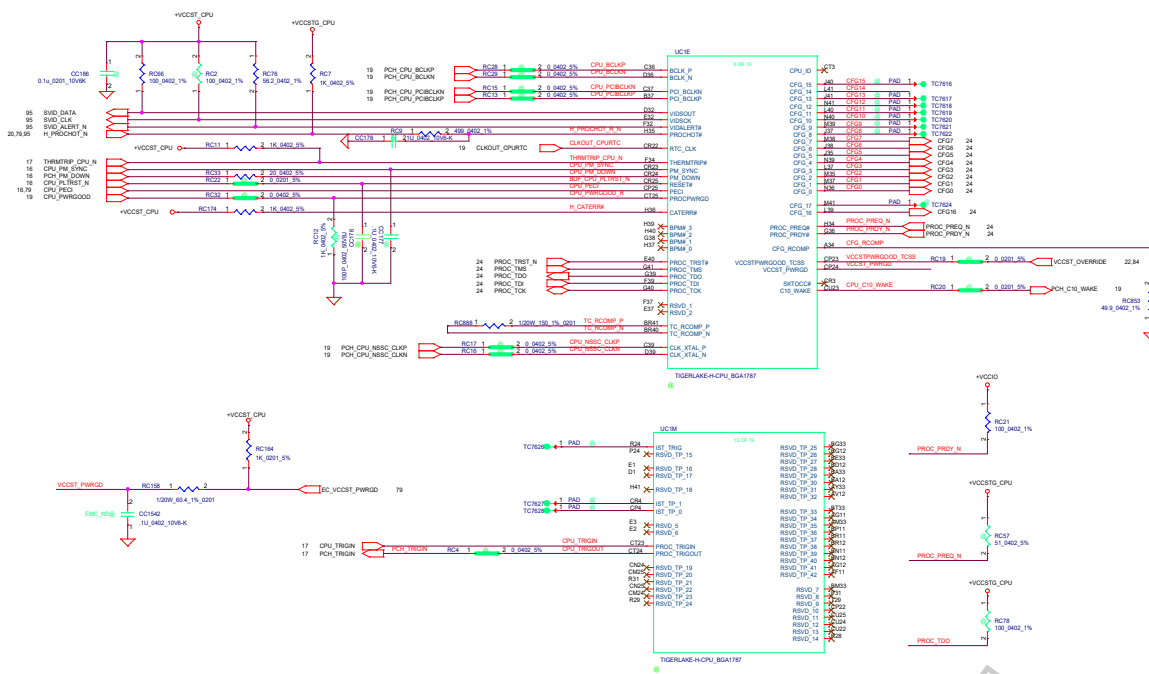
For MAIN SSD1



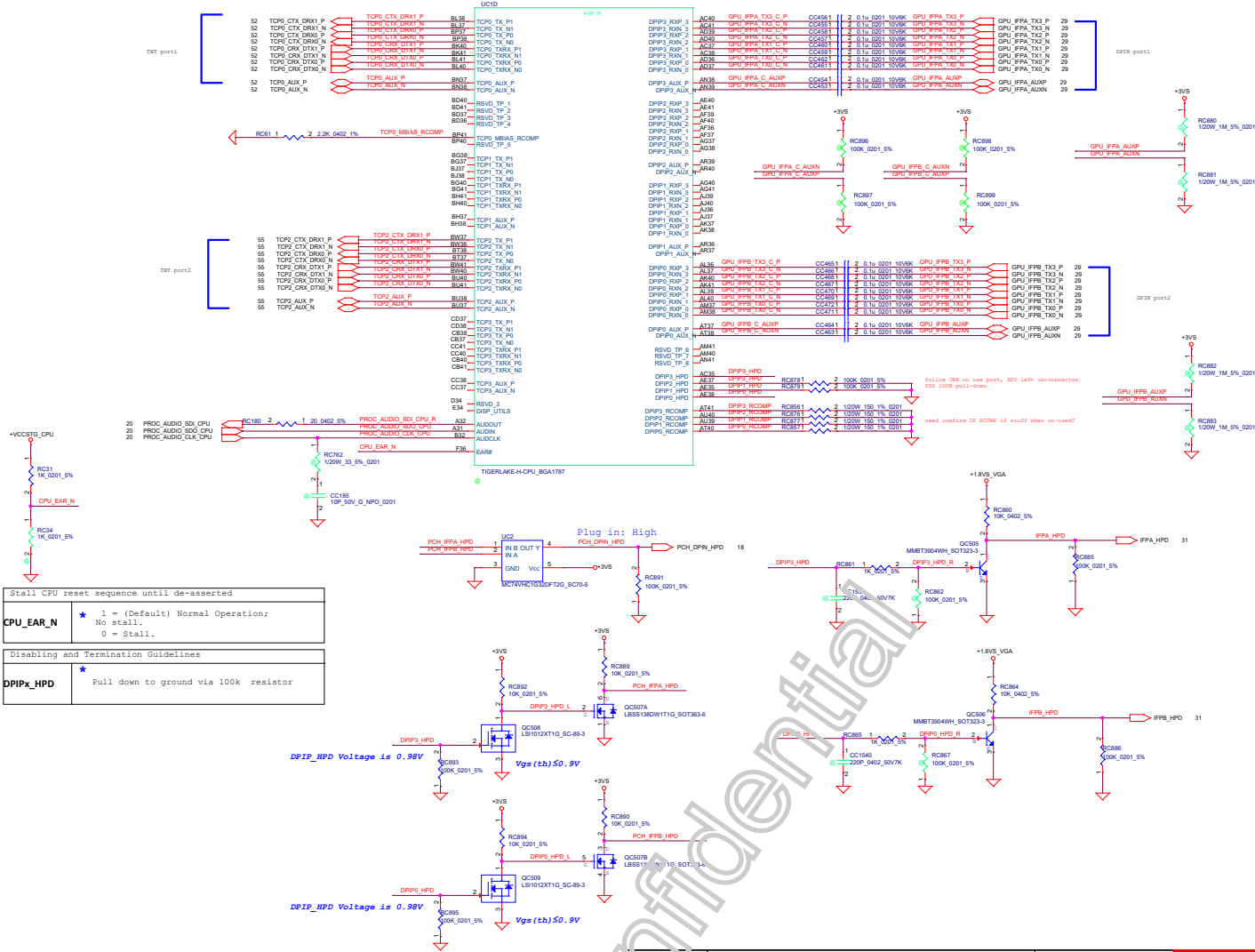
Security Classification		LCFC Highly Confidential Information		Title	X60-TGL-H	
Issued Date	2012/07/01	Deciphered Date	2014/07/01	LCFC		
THIS IS A COPY OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF LC FUTURE CENTER AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF P&ID TO ANY OTHER PERSON OR ENTITY WITHOUT THE EXPRESS WRITTEN AUTHORIZATION BY LC FUTURE CENTER. THE INFORMATION CONTAINED HEREIN IS NOT TO BE USED OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF LC FUTURE CENTER.				Scale	Document Number	Rev
				C	CPU (1/9) DMI_PEG	01
				Date	September 04, 2021	By

CFG Straps for CPU

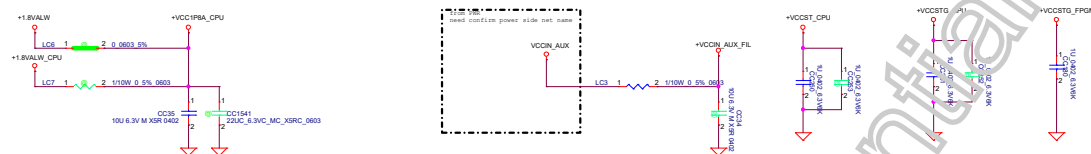
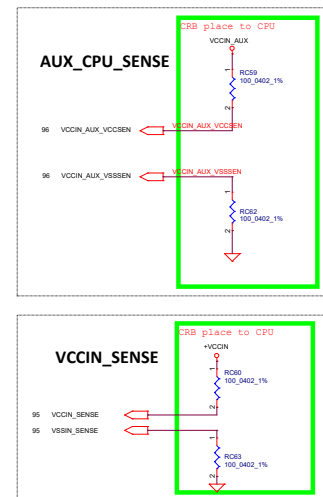
Reserved configuration lane	
CFG0	N/A
Reserved configuration lane	
CFG1	N/A
PCI Express* Static x16 Lane Numbering Reversal	
CFG2	1 = Normal operation * 0 = Lane numbers reversed.
Reserved configuration lane	
CFG3	N/A
SDF enable	
CFG4	1 = Disabled. * 0 = Enabled.
PCI Express* Bifurcation	
CFG[6:5]	00 = 1 x8, 2 x4 PCI Express* 01 = reserved 10 = 2 x8 PCI Express* * 11 = 1 x16 PCI Express*
Reserved configuration lane	
CFG[13:7]	N/A
PCIe4 LANE reversal	
CFG14	* 1 = (default) normal 0 = Reversed
Reserved configuration lane.	
CFG[17:15]	N/A




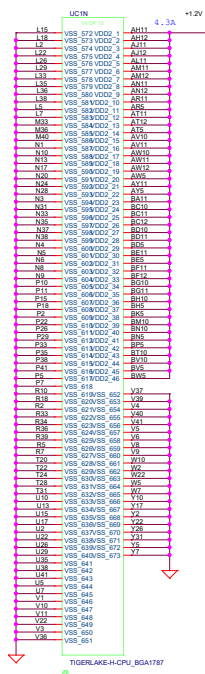
Security Classification		LCFC Highly Confidential Information		Type	
Issued Date		Deciphered Date		X86-TGL-H	
2012/07/01		2014/07/01		LCFC	
Document Number		CPU (4/9) PW_XDP_CLK_CFG		1	
Rev		1.0		1.0	



Security Classification			LCFC Highly Confidential Information		Title		LCFC
Issued Date			Deciphered Date		X60-TGL-H		
2012/07/01			2014/07/01				
1. SECRET - IF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF LG FUTURE CENTER, AND CONTAINS CONFIDENTIAL INFORMATION, IT SHALL BE TREATED AS SUCH AND NOT BE TRANSMITTED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF LG FUTURE CENTER.							
2. SECRET - IF INFORMATION IS THE PROPERTY OF THE COMPETENT DIVISION OF R&D							
3. TREATED EXCEPT AS AUTHORIZED BY LG FUTURE CENTER NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS							
4. USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF LG FUTURE CENTER							
Doc No.		Document Number		CPU (6/9) DDI_TBT		Rev. 0.1	
Date		Wednesday, April 07, 2015		Sheet		12 of 110	



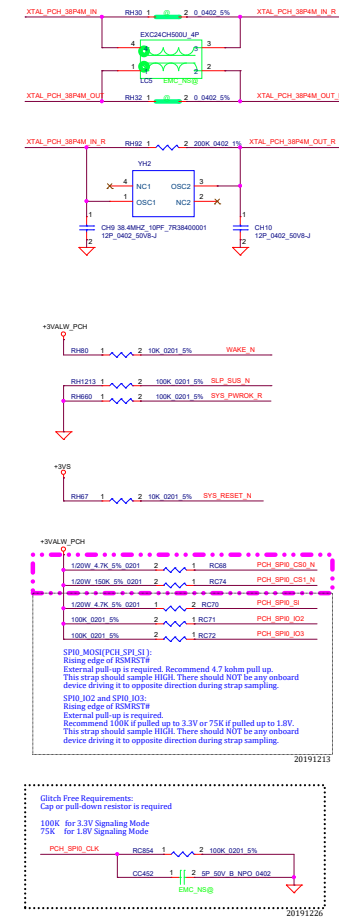
Security Classification		LCFC Highly Confidential Information		Title		
Declassified Date		Declassified Date		X60-TGL-H		
2012/07/01		2014/07/01				
<p>THIS IS A TYPE OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF LC FUTURE CENTER AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D TO ANY OTHER AGENCY OR AUTHORIZED BY LC FUTURE CENTER WITHOUT THE EXPRESS WRITTEN PERMISSION OF LC FUTURE CENTER. IT SHALL BE USED OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF LC FUTURE CENTER.</p>						
Size	Document Number		CPL (7/9) PWR BYPASS		Rev	8.1
Date	Issued Date		Issued Date		15 of 150	



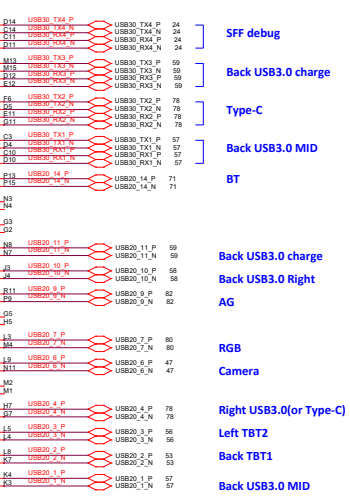
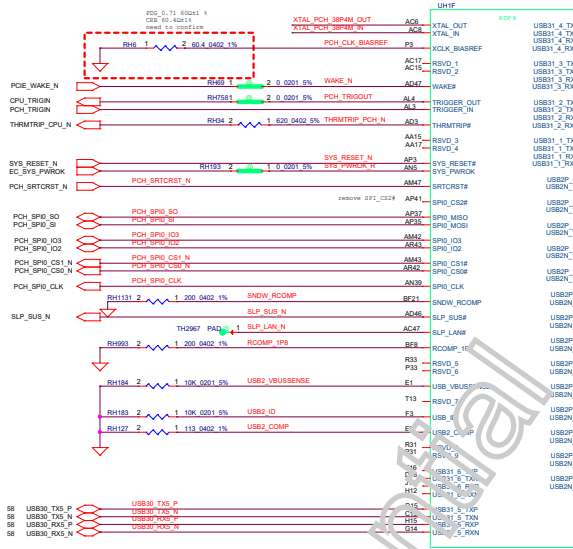
Security Classification				LCFC Highly Confidential Information		TRM	
Declassified Date	2012/07/01	Deciphered Date	2014/07/01			X60-TGL-H	
THIS DOCUMENT IS THE PROPERTY OF THE U.S. GOVERNMENT AND IS NOT TO BE DISTRIBUTED OUTSIDE THE U.S. GOVERNMENT WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE U.S. GOVERNMENT. IT IS TO BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE U.S. GOVERNMENT.						LCFC	
						CPU (8/9) PWR, BYPASS	
						Wednesday, Sep 07, 2011 15:05	

UCP	
UCP	UCP
A11	VSS 41VSS 400
A14	VSS 41VSS 401
A17	VSS 41VSS 402
A20	VSS 41VSS 403
A23	VSS 41VSS 404
A26	VSS 41VSS 405
A29	VSS 41VSS 406
A32	VSS 41VSS 407
A35	VSS 41VSS 408
A38	VSS 41VSS 409
A41	VSS 41VSS 410
A44	VSS 41VSS 411
A47	VSS 41VSS 412
A50	VSS 41VSS 413
A53	VSS 41VSS 414
A56	VSS 41VSS 415
A59	VSS 41VSS 416
A62	VSS 41VSS 417
A65	VSS 41VSS 418
A68	VSS 41VSS 419
A71	VSS 41VSS 420
A74	VSS 41VSS 421
A77	VSS 41VSS 422
A80	VSS 41VSS 423
A83	VSS 41VSS 424
A86	VSS 41VSS 425
A89	VSS 41VSS 426
A92	VSS 41VSS 427
A95	VSS 41VSS 428
A98	VSS 41VSS 429
A101	VSS 41VSS 430
A104	VSS 41VSS 431
A107	VSS 41VSS 432
A110	VSS 41VSS 433
A113	VSS 41VSS 434
A116	VSS 41VSS 435
A119	VSS 41VSS 436
A122	VSS 41VSS 437
A125	VSS 41VSS 438
A128	VSS 41VSS 439
A131	VSS 41VSS 440
A134	VSS 41VSS 441
A137	VSS 41VSS 442
A140	VSS 41VSS 443
A143	VSS 41VSS 444
A146	VSS 41VSS 445
A149	VSS 41VSS 446
A152	VSS 41VSS 447
A155	VSS 41VSS 448
A158	VSS 41VSS 449
A161	VSS 41VSS 450
A164	VSS 41VSS 451
A167	VSS 41VSS 452
A170	VSS 41VSS 453
A173	VSS 41VSS 454
A176	VSS 41VSS 455
A179	VSS 41VSS 456
A182	VSS 41VSS 457
A185	VSS 41VSS 458
A188	VSS 41VSS 459
A191	VSS 41VSS 460
A194	VSS 41VSS 461
A197	VSS 41VSS 462
A200	VSS 41VSS 463
A203	VSS 41VSS 464
A206	VSS 41VSS 465
A209	VSS 41VSS 466
A212	VSS 41VSS 467
A215	VSS 41VSS 468
A218	VSS 41VSS 469
A221	VSS 41VSS 470
A224	VSS 41VSS 471
A227	VSS 41VSS 472
A230	VSS 41VSS 473
A233	VSS 41VSS 474
A236	VSS 41VSS 475
A239	VSS 41VSS 476
A242	VSS 41VSS 477
A245	VSS 41VSS 478
A248	VSS 41VSS 479
A251	VSS 41VSS 480
A254	VSS 41VSS 481
A257	VSS 41VSS 482
A260	VSS 41VSS 483
A263	VSS 41VSS 484
A266	VSS 41VSS 485
A269	VSS 41VSS 486
A272	VSS 41VSS 487
A275	VSS 41VSS 488
A278	VSS 41VSS 489
A281	VSS 41VSS 490
A284	VSS 41VSS 491
A287	VSS 41VSS 492
A290	VSS 41VSS 493
A293	VSS 41VSS 494
A296	VSS 41VSS 495
A299	VSS 41VSS 496
A302	VSS 41VSS 497
A305	VSS 41VSS 498
A308	VSS 41VSS 499
A311	VSS 41VSS 500
A314	VSS 41VSS 501
A317	VSS 41VSS 502
A320	VSS 41VSS 503
A323	VSS 41VSS 504
A326	VSS 41VSS 505
A329	VSS 41VSS 506
A332	VSS 41VSS 507
A335	VSS 41VSS 508
A338	VSS 41VSS 509
A341	VSS 41VSS 510
A344	VSS 41VSS 511
A347	VSS 41VSS 512
A350	VSS 41VSS 513
A353	VSS 41VSS 514
A356	VSS 41VSS 515
A359	VSS 41VSS 516
A362	VSS 41VSS 517
A365	VSS 41VSS 518
A368	VSS 41VSS 519
A371	VSS 41VSS 520
A374	VSS 41VSS 521
A377	VSS 41VSS 522
A380	VSS 41VSS 523
A383	VSS 41VSS 524
A386	VSS 41VSS 525
A389	VSS 41VSS 526
A392	VSS 41VSS 527
A395	VSS 41VSS 528
A398	VSS 41VSS 529
A401	VSS 41VSS 530
A404	VSS 41VSS 531
A407	VSS 41VSS 532
A410	VSS 41VSS 533
A413	VSS 41VSS 534
A416	VSS 41VSS 535
A419	VSS 41VSS 536
A422	VSS 41VSS 537
A425	VSS 41VSS 538
A428	VSS 41VSS 539
A431	VSS 41VSS 540
A434	VSS 41VSS 541
A437	VSS 41VSS 542
A440	VSS 41VSS 543
A443	VSS 41VSS 544
A446	VSS 41VSS 545
A449	VSS 41VSS 546
A452	VSS 41VSS 547
A455	VSS 41VSS 548
A458	VSS 41VSS 549
A461	VSS 41VSS 550
A464	VSS 41VSS 551
A467	VSS 41VSS 552
A470	VSS 41VSS 553
A473	VSS 41VSS 554
A476	VSS 41VSS 555
A479	VSS 41VSS 556
A482	VSS 41VSS 557
A485	VSS 41VSS 558
A488	VSS 41VSS 559
A491	VSS 41VSS 560
A494	VSS 41VSS 561
A497	VSS 41VSS 562
A500	VSS 41VSS 563
A503	VSS 41VSS 564
A506	VSS 41VSS 565
A509	VSS 41VSS 566
A512	VSS 41VSS 567
A515	VSS 41VSS 568
A518	VSS 41VSS 569
A521	VSS 41VSS 570
A524	VSS 41VSS 571
A527	VSS 41VSS 572
A530	VSS 41VSS 573
A533	VSS 41VSS 574
A536	VSS 41VSS 575
A539	VSS 41VSS 576
A542	VSS 41VSS 577
A545	VSS 41VSS 578
A548	VSS 41VSS 579
A551	VSS 41VSS 580
A554	VSS 41VSS 581
A557	VSS 41VSS 582
A560	VSS 41VSS 583
A563	VSS 41VSS 584
A566	VSS 41VSS 585
A569	VSS 41VSS 586
A572	VSS 41VSS 587
A575	VSS 41VSS 588
A578	VSS 41VSS 589
A581	VSS 41VSS 590
A584	VSS 41VSS 591
A587	VSS 41VSS 592
A590	VSS 41VSS 593
A593	VSS 41VSS 594
A596	VSS 41VSS 595
A599	VSS 41VSS 596
A602	VSS 41VSS 597
A605	VSS 41VSS 598
A608	VSS 41VSS 599
A611	VSS 41VSS 600
A614	VSS 41VSS 601
A617	VSS 41VSS 602
A620	VSS 41VSS 603
A623	VSS 41VSS 604
A626	VSS 41VSS 605
A629	VSS 41VSS 606
A632	VSS 41VSS 607
A635	VSS 41VSS 608
A638	VSS 41VSS 609
A641	VSS 41VSS 610
A644	VSS 41VSS 611
A647	VSS 41VSS 612
A650	VSS 41VSS 613
A653	VSS 41VSS 614
A656	VSS 41VSS 615
A659	VSS 41VSS 616
A662	VSS 41VSS 617
A665	VSS 41VSS 618
A668	VSS 41VSS 619
A671	VSS 41VSS 620
A674	VSS 41VSS 621
A677	VSS 41VSS 622
A680	VSS 41VSS 623
A683	VSS 41VSS 624
A686	VSS 41VSS 625
A689	VSS 41VSS 626
A692	VSS 41VSS 627
A695	VSS 41VSS 628
A698	VSS 41VSS 629
A701	VSS 41VSS 630
A704	VSS 41VSS 631
A707	VSS 41VSS 632
A710	VSS 41VSS 633
A713	VSS 41VSS 634
A716	VSS 41VSS 635
A719	VSS 41VSS 636
A722	VSS 41VSS 637
A725	VSS 41VSS 638
A728	VSS 41VSS 639
A731	VSS 41VSS 640
A734	VSS 41VSS 641
A737	VSS 41VSS 642
A740	VSS 41VSS 643
A743	VSS 41VSS 644
A746	VSS 41VSS 645
A749	VSS 41VSS 646
A752	VSS 41VSS 647
A755	VSS 41VSS 648
A758	VSS 41VSS 649
A761	VSS 41VSS 650
A764	VSS 41VSS 651
A767	VSS 41VSS 652
A770	VSS 41VSS 653
A773	VSS 41VSS 654
A776	VSS 41VSS 655
A779	VSS 41VSS 656
A782	VSS 41VSS 657
A785	VSS 41VSS 658
A788	VSS 41VSS 659
A791	VSS 41VSS 660
A794	VSS 41VSS 661
A797	VSS 41VSS 662
A800	VSS 41VSS 663
A803	VSS 41VSS 664
A806	VSS 41VSS 665
A809	VSS 41VSS 666
A812	VSS 41VSS 667
A815	VSS 41VSS 668
A818	VSS 41VSS 669
A821	VSS 41VSS 670
A824	VSS 41VSS 671
A827	VSS 41VSS 672
A830	VSS 41VSS 673
A833	VSS 41VSS 674
A836	VSS 41VSS 675
A839	VSS 41VSS 676
A842	VSS 41VSS 677
A845	VSS 41VSS 678
A848	VSS 41VSS 679
A851	VSS 41VSS 680
A854	VSS 41VSS 681
A857	VSS 41VSS 682
A860	VSS 41VSS 683
A863	VSS 41VSS 684
A866	VSS 41VSS 685
A869	VSS 41VSS 686
A872	VSS 41VSS 687
A875	VSS 41VSS 688
A878	VSS 41VSS 689
A881	VSS 41VSS 690
A884	VSS 41VSS 691
A887	VSS 41VSS 692
A890	VSS 41VSS 693
A893	VSS 41VSS 694
A896	VSS 41VSS 695
A899	VSS 41VSS 696
A902	VSS 41VSS 697
A905	VSS 41VSS 698
A908	VSS 41VSS 699
A911	VSS 41VSS 700
A914	VSS 41VSS 701
A917	VSS 41VSS 702
A920	VSS 41VSS 703
A923	VSS 41VSS 704
A926	VSS 41VSS 705
A929	VSS 41VSS 706
A932	VSS 41VSS 707
A935	VSS 41VSS 708
A938	VSS 41VSS 709
A941	VSS 41VSS 710
A944	VSS 41VSS 711
A947	VSS 41VSS 712
A950	VSS 41VSS 713
A953	VSS 41VSS 714
A956	VSS 41VSS 715
A959	VSS 41VSS 716
A962	VSS 41VSS 717
A965	VSS 41VSS 718
A968	VSS 41VSS 719
A971	VSS 41VSS 720
A974	VSS 41VSS 721
A977	VSS 41VSS 722
A980	VSS 41VSS 723
A983	VSS 41VSS 724
A986	VSS 41VSS 725
A989	VSS 41VSS 726
A992	VSS 41VSS 727
A995	VSS 41VSS 728
A998	VSS 41VSS 729
A1001	VSS 41VSS 730
A1004	VSS 41VSS 731
A1007	VSS 41VSS 732
A1010	VSS 41VSS 733
A1013	VSS 41VSS 734
A1016	VSS 41VSS 735
A1019	VSS 41VSS 736
A1022	VSS 41VSS 737
A1025	VSS 41VSS 738
A1028	VSS 41VSS 739
A1031	VSS 41VSS 740
A1034	VSS 41VSS 741
A1037	VSS 41VSS 742
A1040	VSS 41VSS 743
A1043	VSS 41VSS 744
A1046	VSS 41VSS 745
A1049	VSS 41VSS 746
A1052	VSS 41VSS 747
A1055	VSS 41VSS 748
A1058	VSS 41VSS 749
A1061	VSS 41VSS 750
A1064	VSS 41VSS 751
A1067	VSS 41VSS 752
A1070	VSS 41VSS 753
A1073	VSS 41VSS 754
A1076	VSS 41VSS 755
A1079	VSS 41VSS 756
A1082	VSS 41VSS 757
A1085	VSS 41VSS 758
A1088	VSS 41VSS 759
A1091	VSS 41VSS 760
A1094	VSS 41VSS 761
A1097	VSS 41VSS 762
A1100	VSS 41VSS 763
A1103	VSS 41VSS 764
A1106	VSS 41VSS 765
A1109	VSS 41VSS 766
A1112	VSS 41VSS 767
A1115	VSS 41VSS 768
A1118	VSS 41VSS 769
A1121	VSS 41VSS 770
A1124	VSS 41VSS 771
A1127	VSS 41VSS 772
A1130	VSS 41VSS 773
A1133	VSS 41VSS 774
A1136	VSS 41VSS 775
A1139	VSS 41VSS 776
A1142	VSS 41VSS 777
A1145	VSS 41VSS 778
A1148	VSS 41VSS 779
A1151	VSS 41VSS 780
A1154	VSS 41VSS 781
A1157	VSS 41VSS 782
A1160	VSS 41VSS 783
A1163	VSS 41VSS 784
A1166	VSS 41VSS 785
A1169	VSS 41VSS 786
A1172	VSS 41VSS 787
A1175	VSS 41VSS 788
A1178	VSS 41VSS 789
A1181	VSS 41VSS 790
A1184	VSS 41VSS 791
A1187	VSS 41VSS 792
A1190	VSS 41VSS 793
A1193	VSS 41VSS 794
A1196	VSS 41VSS 795
A1199	VSS 41VSS 796
A1202	VSS 41VSS 797
A1205	VSS 41VSS 798
A1208	VSS 41VSS 799
A1211	VSS 41VSS 800
A1214	VSS 41VSS 801
A1217	VSS 41VSS 802
A1220	VSS 41VSS 803
A1223	VSS 41VSS 804
A1226	VSS 41VSS 805
A1229	VSS 41VSS 806
A1232	VSS 41VSS 807
A1235	VSS 41VSS 808
A1238	VSS 41VSS 809
A1241	VSS 41VSS 810
A1244	VSS 41VSS 811
A1247	VSS 41VSS 812
A1250	VSS 41VSS 813
A1253	VSS 41VSS 814
A1256	VSS 41VSS 815
A1259	VSS 41VSS 816
A1262	VSS 41VSS 817
A1265	VSS 41VSS 818
A1268	VSS 41VSS 819
A1271	VSS 41VSS 820
A1274	VSS 41VSS 821

All processor based platforms are required to provide a 38.4MHz input to the PCH to enable the PCH to generate all of its internal reference clocks and all of the single-ended and differential platform clock outputs

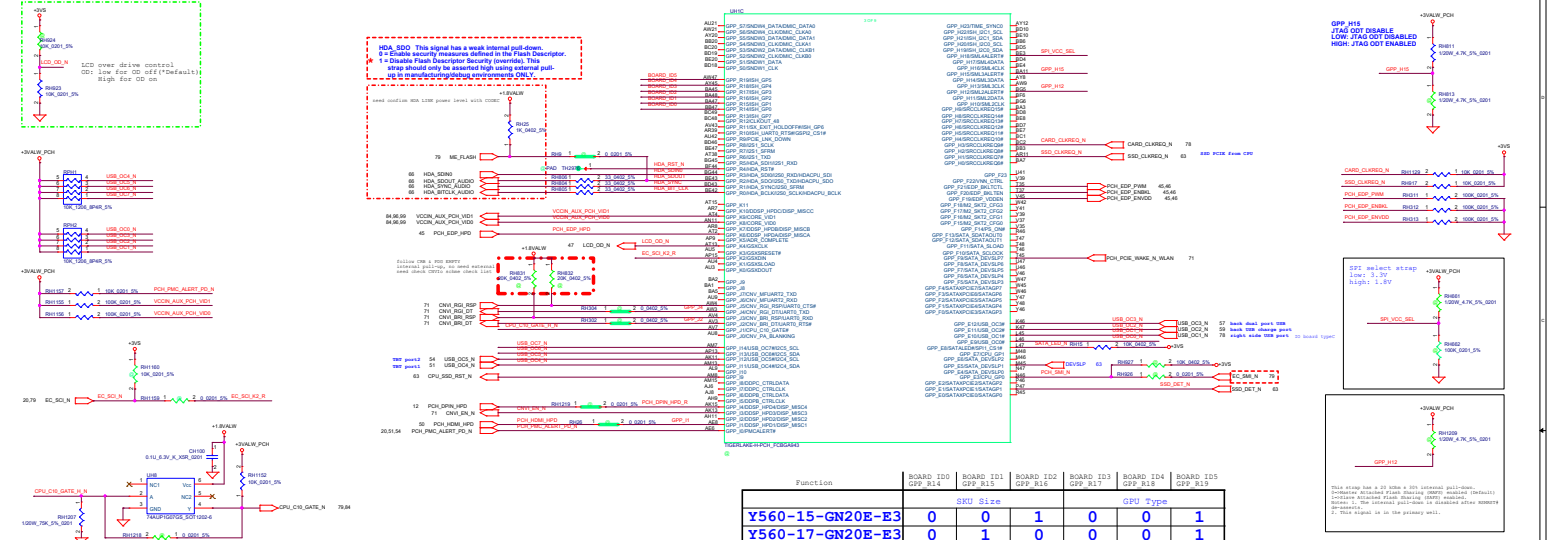


Back USB3.0 Right



SFF debug
Back USB3.0 charge
Type-C
Back USB3.0 MID
BT
Back USB3.0 charge
Back USB3.0 Right
AG
RGB
Camera
Right USB3.0(or Type-C)
Left TB72
Back TB71
Back USB3.0 MID

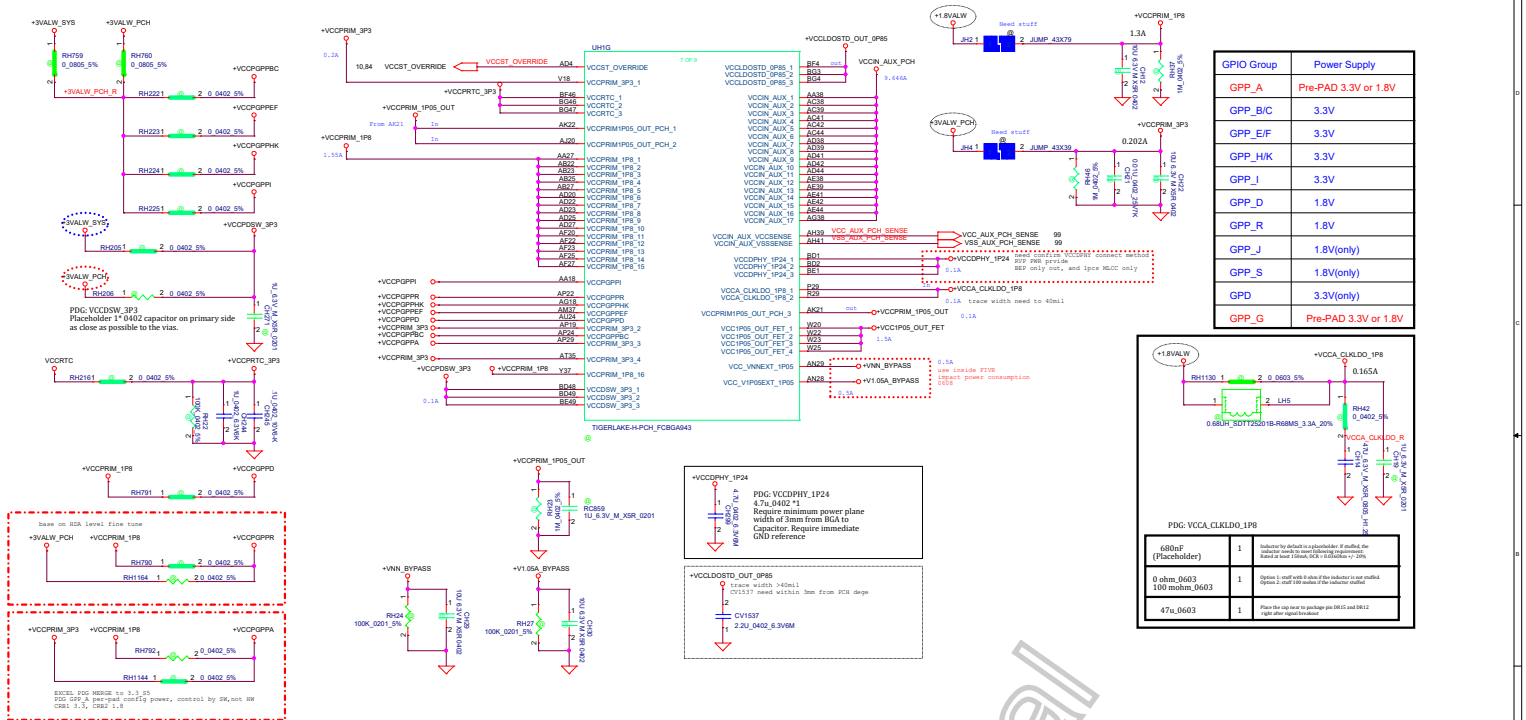
LCFC Highly Confidential Information				TMR X60-TGL-H		LCFC
Security Classification	Issued Date	Deciphered Date	Deciphered Date	Document Number	Rev	
	2012/07/01		2014/07/01	PCH (2/8) USB, SPI	0.1	
THIS DOCUMENT CONTAINS CONFIDENTIAL INFORMATION. IT IS THE PROPERTY OF LCFC. IT IS TO BE USED ONLY FOR THE PURPOSES AUTHORIZED BY LCFC. IT IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF LCFC. IT IS THE PROPERTY OF LCFC. IT IS TO BE USED ONLY FOR THE PURPOSES AUTHORIZED BY LCFC. IT IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF LCFC.				Date	Wednesday, April 23, 2014	Sheet 17 of 110



Function	BOARD 100 GPP R14	BOARD 101 GPP R15	BOARD 102 GPP R16	BOARD 103 GPP R17	BOARD 104 GPP R18	BOARD 105 GPP R19
Y560-15-GN20E-E3	0	0	1	0	0	1
Y560-17-GN20E-E3	0	1	0	0	0	1
Y560-15-GN20E-E5	0	0	1	0	1	0
Y560P-GN20E-E3	0	1	1	0	0	1
Y560P-GN20E-E5	0	1	1	0	1	0
Y760-GN20E-E3	1	0	0	0	0	1
Y760-GN20E-E5	1	0	0	0	1	0
Y760-GN20E-E7	1	0	0	0	1	1
Y560-15-GN20P-P0	0	0	1	1	0	0
Y560-17-GN20P-P0	0	1	0	1	0	0
Y560-15-GN20P-P1	0	0	1	1	0	1
Y560-17-GN20P-P1	0	1	0	1	0	1
Y560P-GN20P-P0	0	1	1	1	0	0
Y560P-GN20P-P1	0	1	1	1	0	1
Y560-15-N18P-G61	0	0	1	1	1	0
Y560-17-N18P-G61	0	1	0	1	1	0
Y560-15-GN20P0-D	0	0	1	1	1	1

LCFC Highly Confidential Information		Rev	Ver
Rev	Ver	20180701	20180701
This document is the property of LCFC. It contains confidential information and is not to be distributed outside the company. It is the responsibility of the user to ensure that this information is not disclosed to unauthorized personnel. If this document is found in an unauthorized location, it should be destroyed immediately. If you are not an authorized user, you should not use this document.		LCFC	

Security Classification	LCFC Highly Confidential Information		Title	X60-TGL-H	<div style="background-color: red; color: white; padding: 10px; text-align: center; font-weight: bold; font-size: 2em;">LCFC</div>
Issued Date	2012/07/01	Deciphered Date	2014/07/01		
THIS IS A COPY OF AN ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF LC FUTURE CENTER AND CONTAINS CONFIDENTIAL INFORMATION. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM LC FUTURE CENTER.					
Doc No	PCH (6/8) DMI PM			Rev	01
Date	September 04, 2021			Page	21 of 116



UNIT#	
3 OF 3	
A17	VSS 16VSS 240
A18	VSS 16VSS 241
A19	VSS 16VSS 242
A20	VSS 16VSS 243
A21	VSS 16VSS 244
A22	VSS 16VSS 245
A23	VSS 16VSS 246
A24	VSS 16VSS 247
A25	VSS 16VSS 248
A26	VSS 16VSS 249
A27	VSS 16VSS 250
A28	VSS 16VSS 251
A29	VSS 16VSS 252
A30	VSS 16VSS 253
A31	VSS 16VSS 254
A32	VSS 16VSS 255
A33	VSS 16VSS 256
A34	VSS 16VSS 257
A35	VSS 16VSS 258
A36	VSS 16VSS 259
A37	VSS 16VSS 260
A38	VSS 16VSS 261
A39	VSS 16VSS 262
A40	VSS 16VSS 263
A41	VSS 16VSS 264
A42	VSS 16VSS 265
A43	VSS 16VSS 266
A44	VSS 16VSS 267
A45	VSS 16VSS 268
A46	VSS 16VSS 269
A47	VSS 16VSS 270
A48	VSS 16VSS 271
A49	VSS 16VSS 272
A50	VSS 16VSS 273
A51	VSS 16VSS 274
A52	VSS 16VSS 275
A53	VSS 16VSS 276
A54	VSS 16VSS 277
A55	VSS 16VSS 278
A56	VSS 16VSS 279
A57	VSS 16VSS 280
A58	VSS 16VSS 281
A59	VSS 16VSS 282
A60	VSS 16VSS 283
A61	VSS 16VSS 284
A62	VSS 16VSS 285
A63	VSS 16VSS 286
A64	VSS 16VSS 287
A65	VSS 16VSS 288
A66	VSS 16VSS 289
A67	VSS 16VSS 290
A68	VSS 16VSS 291
A69	VSS 16VSS 292
A70	VSS 16VSS 293
A71	VSS 16VSS 294
A72	VSS 16VSS 295
A73	VSS 16VSS 296
A74	VSS 16VSS 297
A75	VSS 16VSS 298
A76	VSS 16VSS 299
A77	VSS 16VSS 300
A78	VSS 16VSS 301
A79	VSS 16VSS 302
A80	VSS 16VSS 303
A81	VSS 16VSS 304
A82	VSS 16VSS 305
A83	VSS 16VSS 306
A84	VSS 16VSS 307
A85	VSS 16VSS 308
A86	VSS 16VSS 309
A87	VSS 16VSS 310
A88	VSS 16VSS 311
A89	VSS 16VSS 312
A90	VSS 16VSS 313
A91	VSS 16VSS 314
A92	VSS 16VSS 315
A93	VSS 16VSS 316

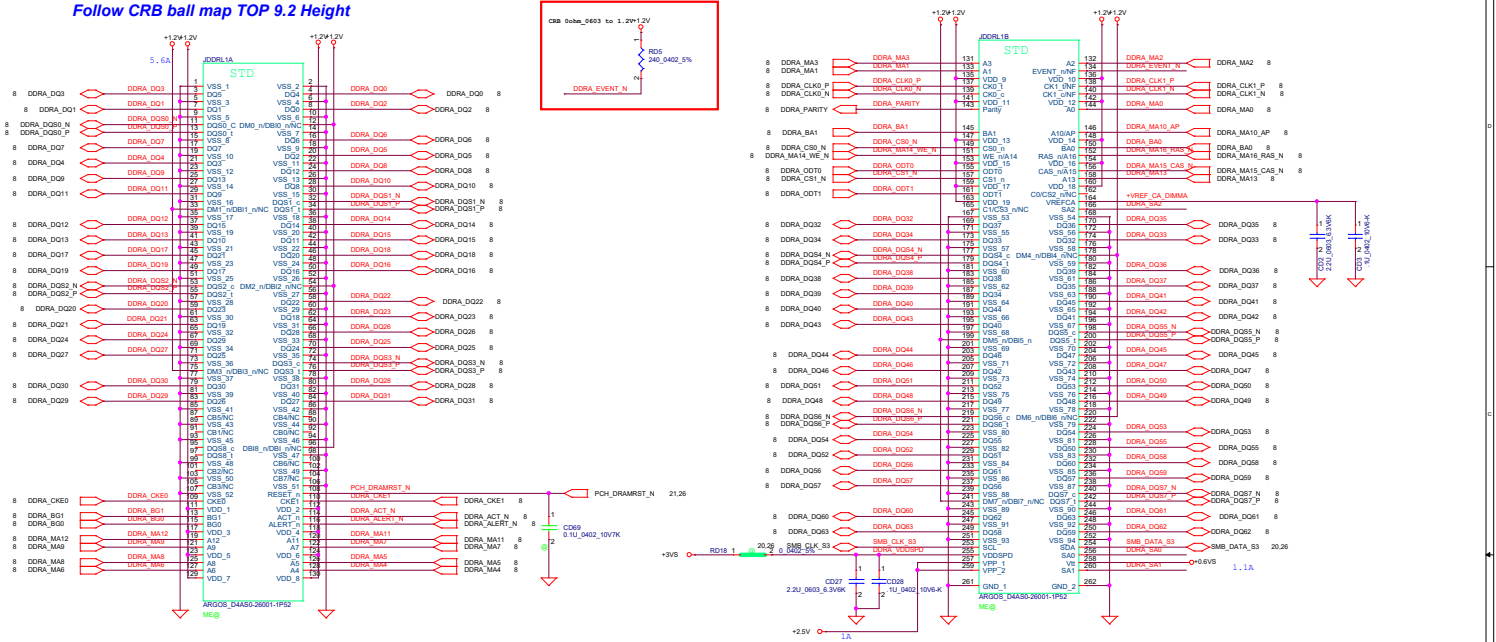
TIGERLAKE-H-PCH_FCB3643

UNIT#	
3 OF 3	
A94	VSS 1 VSS 78
A95	VSS 2 VSS 79
A96	VSS 3 VSS 80
A97	VSS 4 VSS 81
A98	VSS 5 VSS 82
A99	VSS 6 VSS 83
A100	VSS 7 VSS 84
A101	VSS 8 VSS 85
A102	VSS 9 VSS 86
A103	VSS 10 VSS 87
A104	VSS 11 VSS 88
A105	VSS 12 VSS 89
A106	VSS 13 VSS 90
A107	VSS 14 VSS 91
A108	VSS 15 VSS 92
A109	VSS 16 VSS 93
A110	VSS 17 VSS 94
A111	VSS 18 VSS 95
A112	VSS 19 VSS 96
A113	VSS 20 VSS 97
A114	VSS 21 VSS 98
A115	VSS 22 VSS 99
A116	VSS 23 VSS 100
A117	VSS 24 VSS 101
A118	VSS 25 VSS 102
A119	VSS 26 VSS 103
A120	VSS 27 VSS 104
A121	VSS 28 VSS 105
A122	VSS 29 VSS 106
A123	VSS 30 VSS 107
A124	VSS 31 VSS 108
A125	VSS 32 VSS 109
A126	VSS 33 VSS 110
A127	VSS 34 VSS 111
A128	VSS 35 VSS 112
A129	VSS 36 VSS 113
A130	VSS 37 VSS 114
A131	VSS 38 VSS 115
A132	VSS 39 VSS 116
A133	VSS 40 VSS 117
A134	VSS 41 VSS 118
A135	VSS 42 VSS 119
A136	VSS 43 VSS 120
A137	VSS 44 VSS 121
A138	VSS 45 VSS 122
A139	VSS 46 VSS 123
A140	VSS 47 VSS 124
A141	VSS 48 VSS 125
A142	VSS 49 VSS 126
A143	VSS 50 VSS 127
A144	VSS 51 VSS 128
A145	VSS 52 VSS 129
A146	VSS 53 VSS 130
A147	VSS 54 VSS 131
A148	VSS 55 VSS 132
A149	VSS 56 VSS 133
A150	VSS 57 VSS 134
A151	VSS 58 VSS 135
A152	VSS 59 VSS 136
A153	VSS 60 VSS 137
A154	VSS 61 VSS 138
A155	VSS 62 VSS 139
A156	VSS 63 VSS 140
A157	VSS 64 VSS 141
A158	VSS 65 VSS 142
A159	VSS 66 VSS 143
A160	VSS 67 VSS 144
A161	VSS 68 VSS 145
A162	VSS 69 VSS 146
A163	VSS 70 VSS 147
A164	VSS 71 VSS 148
A165	VSS 72 VSS 149
A166	VSS 73 VSS 150
A167	VSS 74 VSS 151
A168	VSS 75 VSS 152
A169	VSS 76 VSS 153
A170	VSS 77 VSS 154
A171	VSS 78 VSS 155
A172	VSS 79 VSS 156
A173	VSS 80 VSS 157
A174	VSS 81 VSS 158
A175	VSS 82 VSS 159
A176	VSS 83 VSS 160
A177	VSS 84 VSS 161
A178	VSS 85 VSS 162

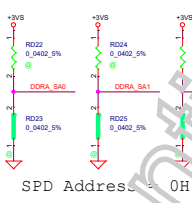
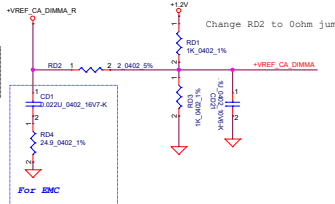
TIGERLAKE-H-PCH_FCB3643

Security Classification		LCFC Highly Confidential Information		TRM	
Classified Date	2012/07/01	Declassified Date	2014/07/01	X60-TGL-H	LCFC
THIS DOCUMENT IS THE PROPERTY OF THE U.S. GOVERNMENT AND IS TO BE REPRODUCED AND TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM THE U.S. GOVERNMENT. THIS DOCUMENT IS NOT TO BE RELEASED TO THE PUBLIC OR TO ANY OTHER AGENCY OR INDIVIDUAL WITHOUT THE WRITTEN CONSENT OF THE U.S. GOVERNMENT.					
Doc ID	C	Document Number	PCH (8/8) VSS	Rev	0.1
Date	Wednesday, Sep 07, 2011	Sheet	25	of	110

DDR4 SO-DIMM A
Follow CRB ball map TOP 9.2 Height



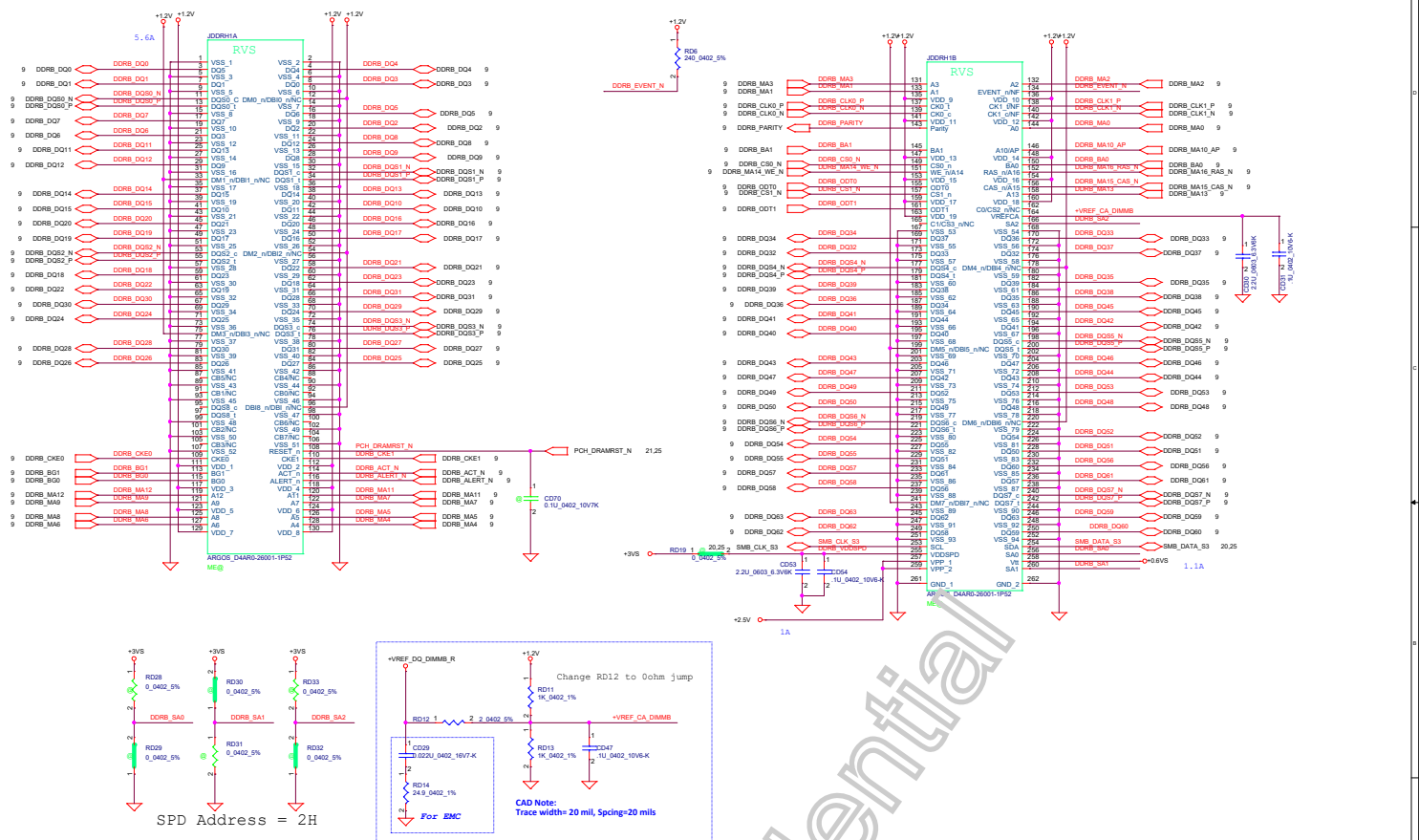
Note:
VREF trace width: 20 mils at least
Spacing: 20mils to other signal/planes
Place near DIMM socket




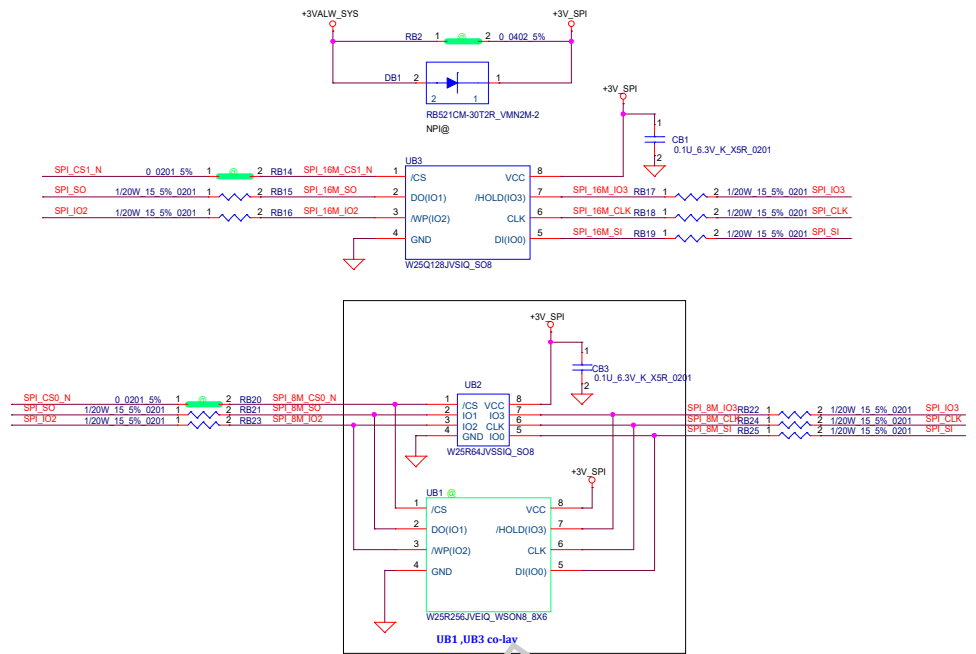
LC Future Center Secret Data			
Security Classification	2018/08/02	Deciphered Date	2018/08/02
Issued Date	2018/08/02	Deciphered Date	2018/08/02
Title: DDR4 SO-DIMM A Doc Number: Y560 Date: Wednesday, April 25, 2018			



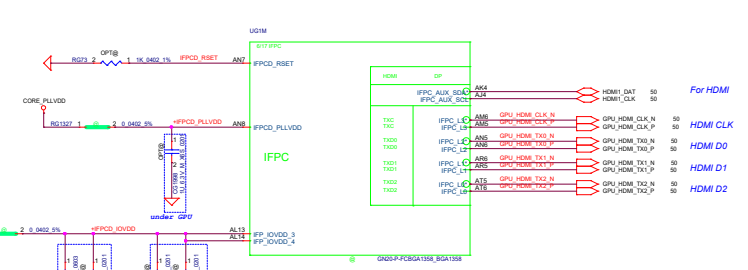
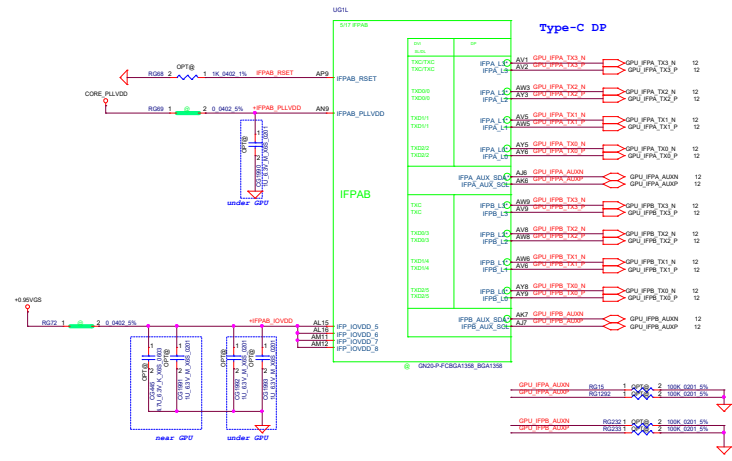
DDR4 SO-DIMM B
Follow CRB ball map TOP 5.2 Height



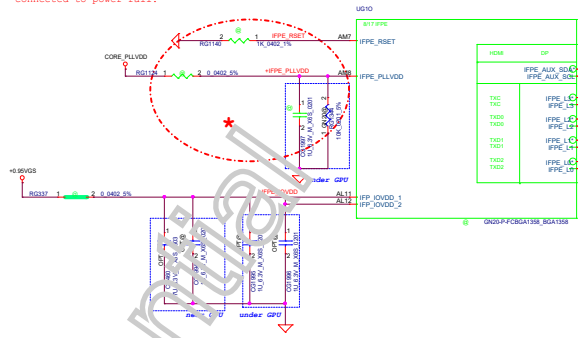
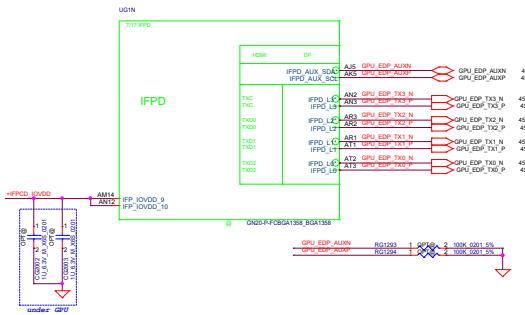
Security Classification		LC Future Center Secret Data		Title			
Declassified Date		Declassified Date		DDRVI SO-DIMM B			
2018/08/02		2018/08/02					
<p>THIS ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF LC FUTURE CENTER, AND CONTAINS CONFIDENTIAL INFORMATION. THE INFORMATION IS NOT TO BE TRANSMITTED OUTSIDE THE CUSTODY OF THE COMPETENT DIVISION OF R&D. NO PART OF THIS DOCUMENT IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT PERMISSION IN WRITING FROM LC FUTURE CENTER. NO PART OF THIS DOCUMENT IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT PERMISSION IN WRITING FROM LC FUTURE CENTER.</p>							
Size		Document Number		Rev			
Y560				0.1			
Date		Wednesday, April 03, 2021		Sheet		26 of 110	



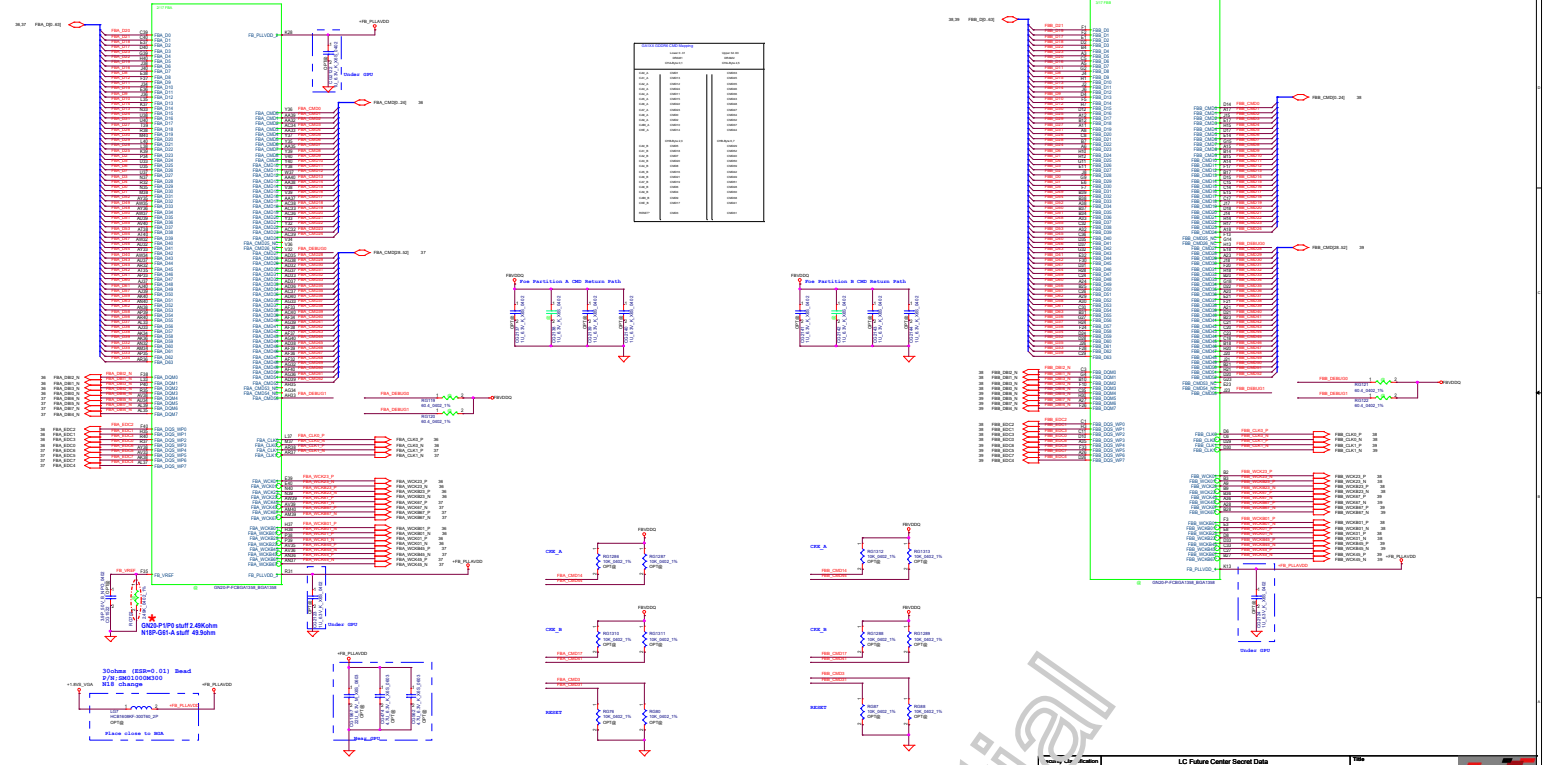
Security Classification	LCFC High Confidential Information			Title	Common Module			LCFC
Issued Date	2012/07/01	Declassify Date	2014/07/01	Size B	Document Number	Rev		
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF LC FUTURE CENTER, AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSMITTED OUT OF THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY LC FUTURE CENTER. IF IT IS TRANSMITTED OUT OF THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT THE WRITTEN CONSENT OF LC FUTURE CENTER.				Date	Wednesday, April 07, 2021	Sheet 27 of 110		



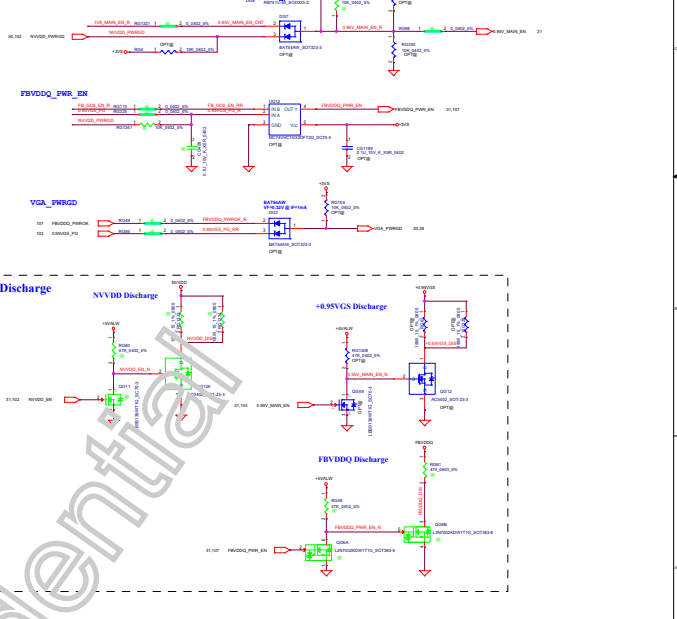
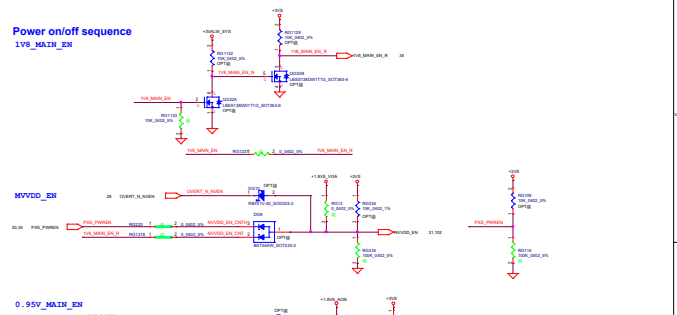
- 1.If an IFP link is unused, The main and AUX links, IFPxy_RSET can be left unconnected, and IFPxy_PLVDD should be 10K PD to GND.
- 2.IFP_I0VDD rail can be left unconnected if no IFP link is used. If any IFP is used, all IFP_I0VDD balls must be connected to power rail.

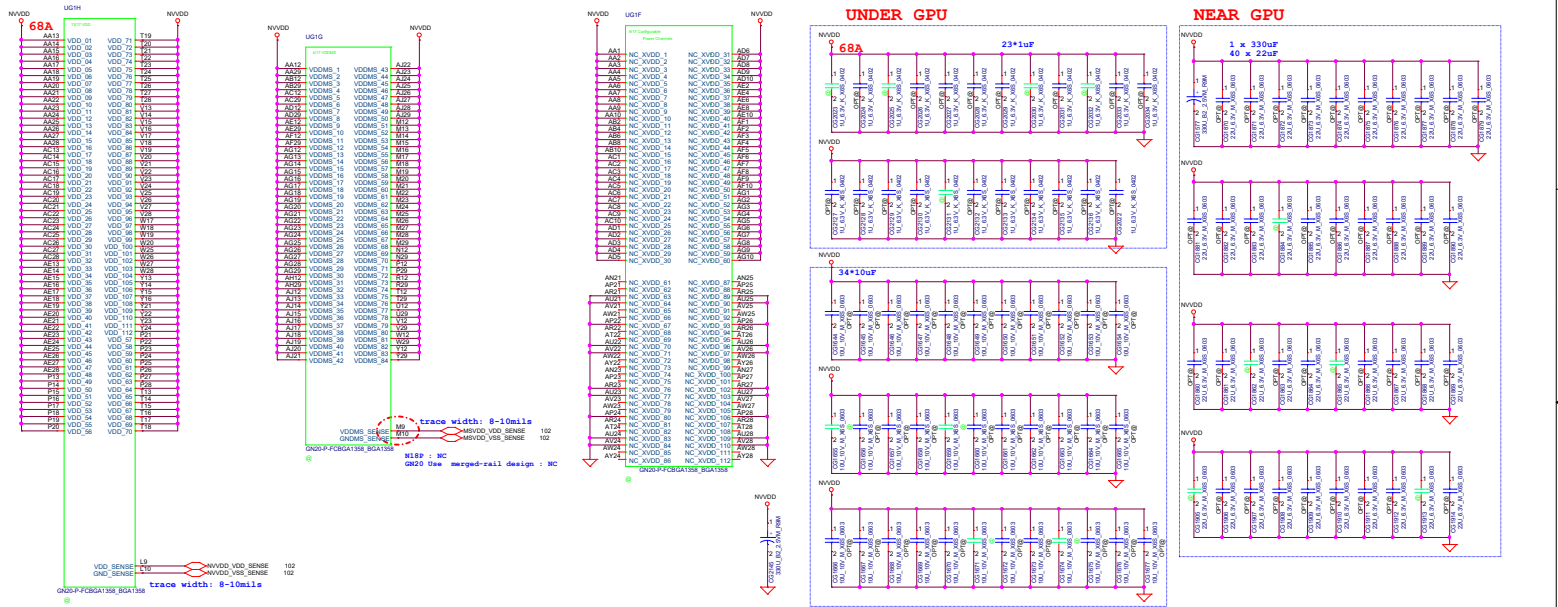


Security Classification			
LC Future Center Secret Data			
Issued Date	2018/08/02	Declassified Date	2018/08/02
SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF LC FUTURE CENTER AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSMITTED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY LC FUTURE CENTER. IF THIS SHEET FOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF LC FUTURE CENTER.			
Title		N18P_3(6)_VRAM IF	
Rev		1	
Cust		5560	
Date		2018/08/02	
Rev		1	
Cust		5560	
Date		2018/08/02	
Rev		1	
Cust		5560	
Date		2018/08/02	

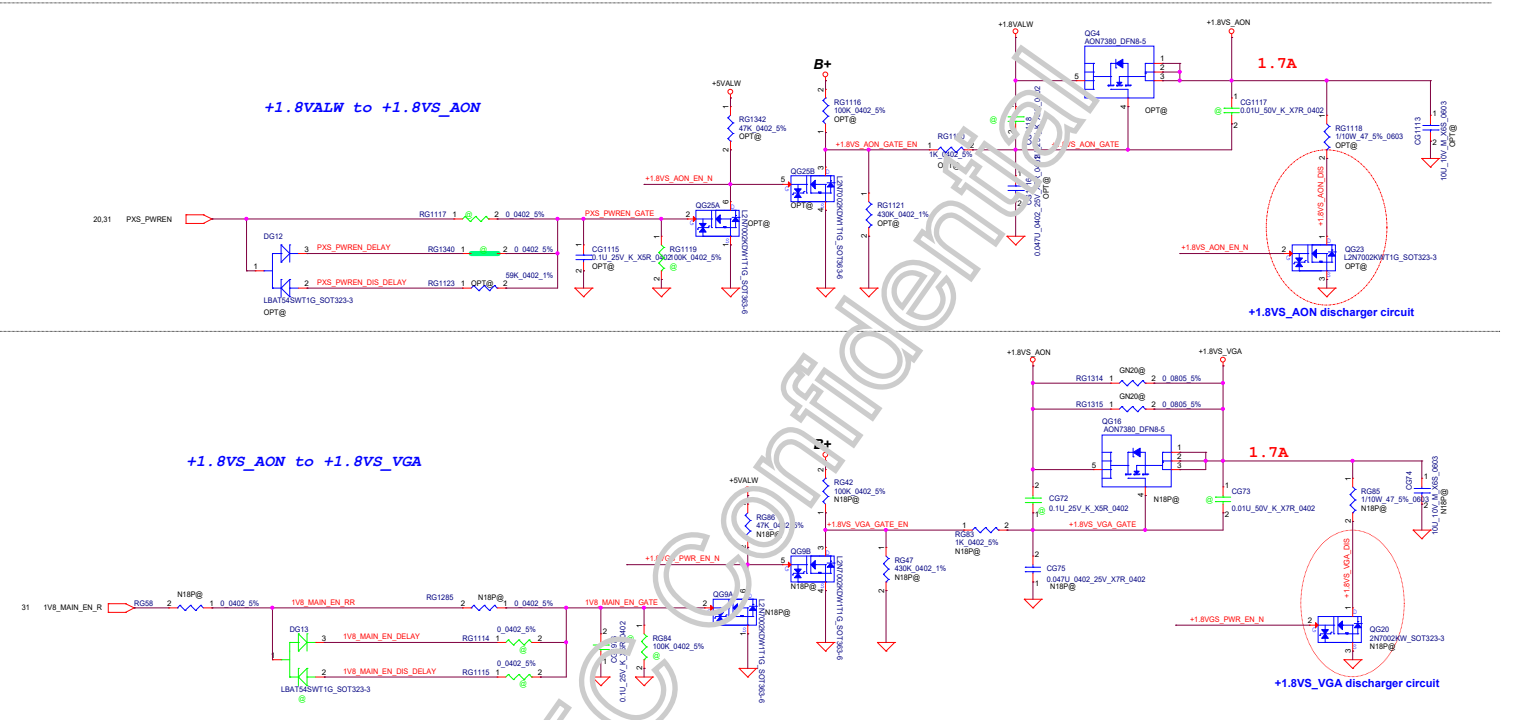
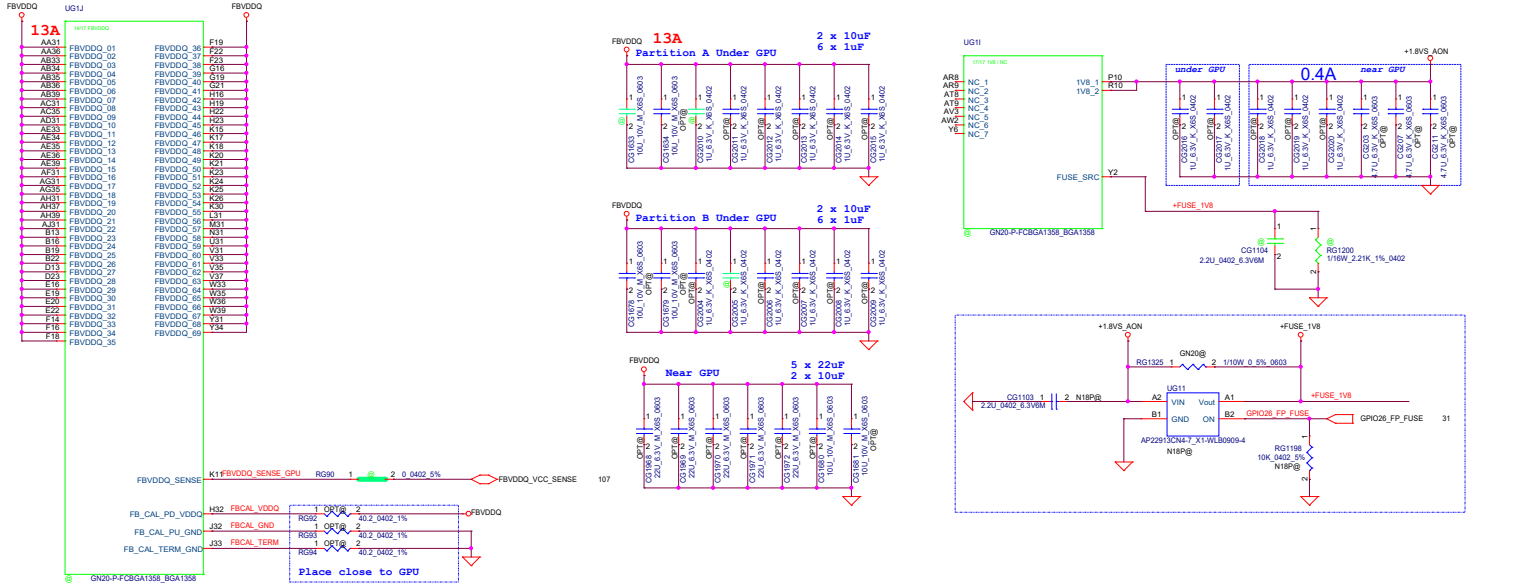


LCFC Confidential

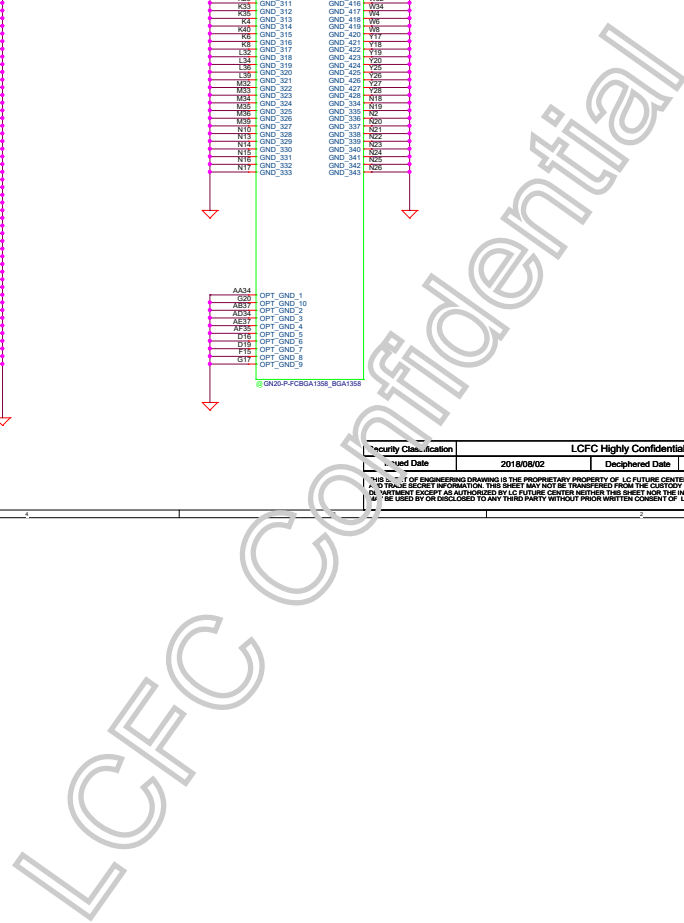




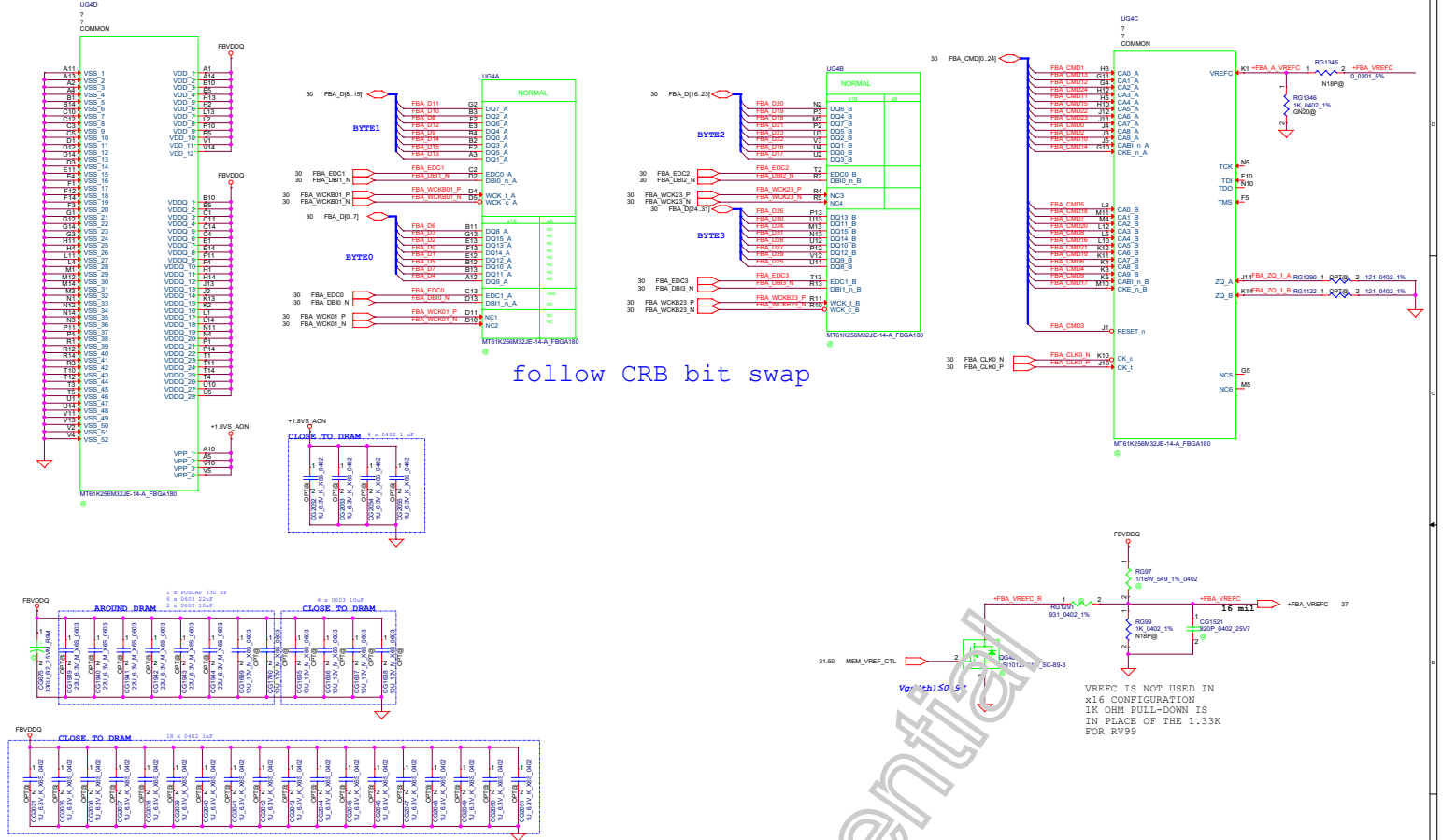
Security Classification		LC Future Center Secret Data		Title	
Issued Date	2016/08/02	Deciphered Date	2016/08/02	Blank	
<p>THIS SHEET OF ENGINEERING DRAWING IS THE PROPERTY OF LC FUTURE CENTER AND CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION. IT IS TO BE TRANSFERRED FROM THE CUSTODY OF THE CONFIDENTIAL DESIGN OF R&D DEPARTMENT SECRETARY AND NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT WRITTEN PERMISSION OF LC FUTURE CENTER.</p>					
Rev	Count	Discussed Number	Y560		
Date		Wednesday, April 07, 2016	Printed	38	of 138



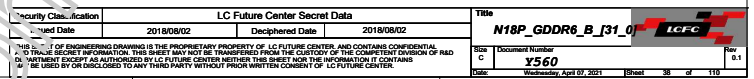
Security Classification		LC Future Center Secret Data		Title	
Issued Date	2018/08/02	Deciphered Date	2018/08/02	N18P_(5/6):PWR	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF LC FUTURE CENTER, AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY LC FUTURE CENTER. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF LC FUTURE CENTER.				Doc. No.	5560
				Rev	01
				Date	2018/08/02
				Sheet	34 of 110



LECTURE



Security Classification		LC Future Center Secret Data		Title	
Classified Date	2018/08/02	Declassified Date	2018/08/02	N18P_GDDR6_A_31_0	
THIS DRAWING IS THE PROPERTY OF LC FUTURE CENTER, AND CONTAINS CONFIDENTIAL INFORMATION. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF LC FUTURE CENTER.				Document Number	Y560
				Date	Wednesday, April 25, 2018
				Sheet	35 of 118



LCFC Confidential

Security Classification		LC Future Center Secret Data		Title	
Declassified Date	2018/08/02	Deciphered Date	2018/08/02	Blank	
<p>THIS IS A COPY OF AN ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF LC FUTURE CENTER, AND CONTAINS CONFIDENTIAL AND SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY LC FUTURE CENTER. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF LC FUTURE CENTER.</p>				Size	Rev
				C	0.1
				Document Number	
Y560				Date	
Wednesday, April 01, 2020				Sheet 45 of 118	

LCFC Confidential

Security Classification		LCFC Highly Confidential Information		Title	
Declassified Date	2018/08/02	Declassified Date	2018/08/02	N18E-G1_GDDR6_C_31_01	
THIS DRAWING OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF LC FUTURE CENTER, AND CONTAINS CONFIDENTIAL INFORMATION. IT IS TO BE KEPT SECRET AND NOT BE DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF LC FUTURE CENTER. NO PART OF THIS DRAWING IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM LC FUTURE CENTER.				Size	Rev
				C	0.1
				Document Number	
				Y560	
				Date	Wednesday, April 01, 2021
				Sheet	41 of 110



LCFC Confidential

Security Classification		LCFC Highly Confidential Information		Title	
Declassified Date	2018/08/02	Declassified Date	2018/08/02	N18E-G1_GDDR6_C_83_32	
THIS DRAWING OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF LC FUTURE CENTER, AND CONTAINS CONFIDENTIAL INFORMATION. IT IS TO BE KEPT SECRET. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY LC FUTURE CENTER. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS IS TO BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF LC FUTURE CENTER.				Size	Rev
				C	0.1
Document Number		Y560		Date	
Wednesday, April 01, 2021		Sheet		42 of 110	



LCFC Confidential

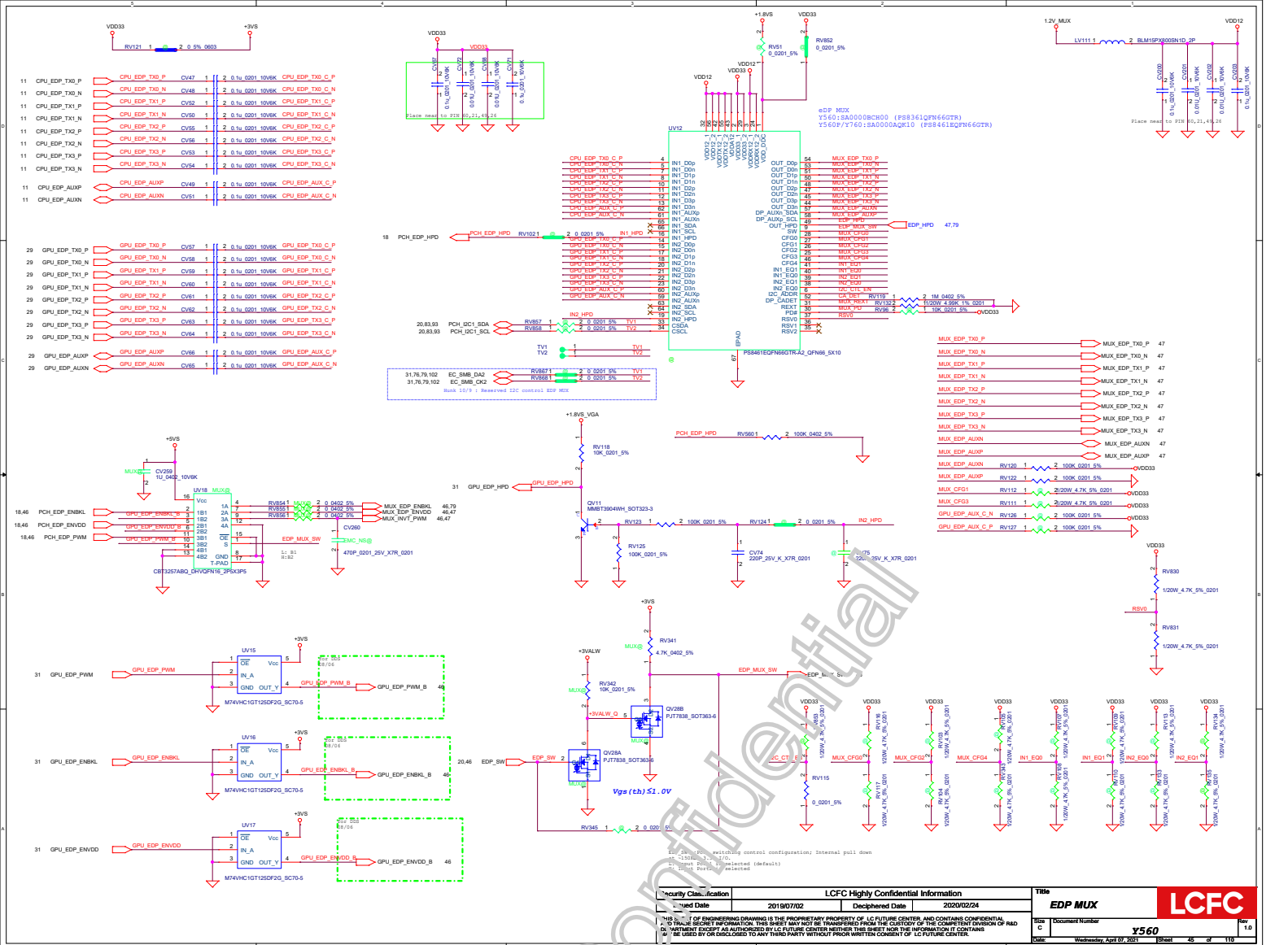
Security Classification		LCFC Highly Confidential Information		Title	
Declassified Date	2018/08/02	Declassified Date	2018/08/02	N18E-G1_GDDR6_C_31_01	
THIS DRAWING OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF LC FUTURE CENTER, AND CONTAINS CONFIDENTIAL INFORMATION. IT IS TO BE KEPT SECRET AND NOT BE DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF LC FUTURE CENTER.				Size	Rev
				C	0.1
				Document Number	
				Y560	
				Date	Wednesday, April 01, 2021
				Sheet	45 of 110

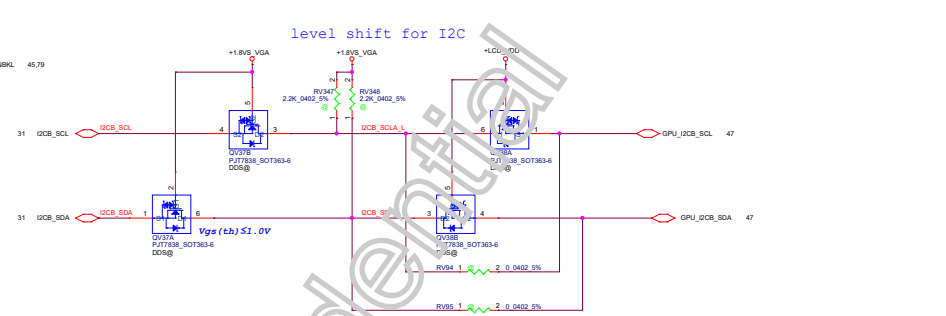
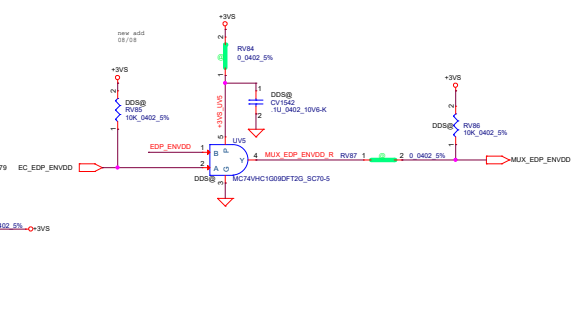




LCFC Confidential

Security Classification		LCFC Highly Confidential Information		Title	
Declassified Date	2018/08/02	Declassified Date	2018/08/02	N18E-G1_GDDR6_C_83_32]	
<p>THIS DRAWING OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF LC FUTURE CENTER, AND CONTAINS CONFIDENTIAL INFORMATION. IT IS TO BE KEPT SECRET AND NOT BE DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF LC FUTURE CENTER.</p>				Size	Document Number
				C	Y560
				Date: Wednesday, April 01, 2021 Sheet: 44 of 110	

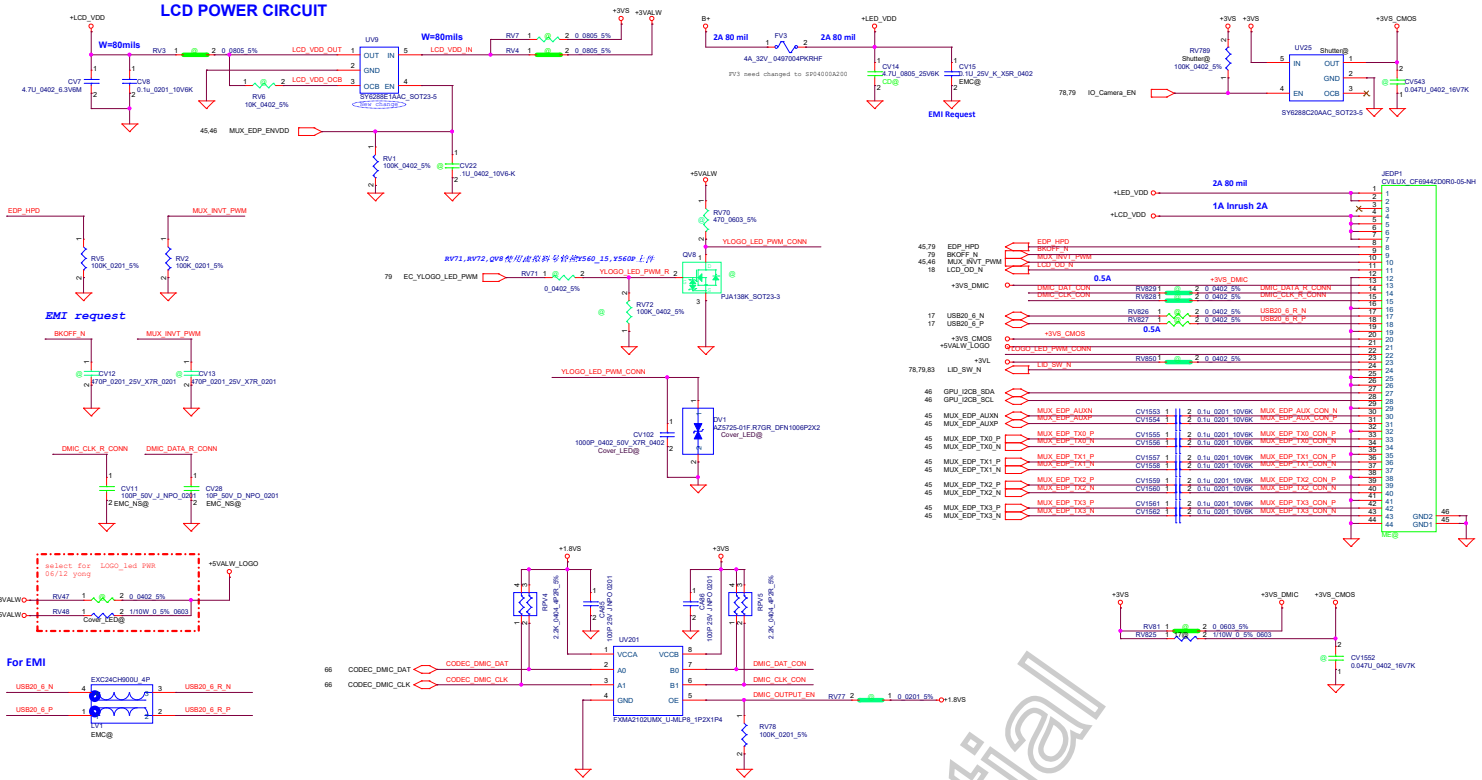
LCFC



[illegible]

Security Classification	LC Future Center Secret Data			Title	 DC V TO VS INTERFACE		
Issued Date	2018/08/02	Deciphered Date	2018/08/02	Size	Document Number		Rev
INFORMATION CONTAINED HEREIN IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE. 1. INFORMATION CONTAINED HEREIN IS THE PROPERTY OF LC FUTURE CENTER, AND CONTAINS CONFIDENTIAL INFORMATION. 2. INFORMATION CONTAINED HEREIN IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. 3. INFORMATION CONTAINED HEREIN IS NOT TO BE DISTRIBUTED OR DISCLOSED TO ANY THIRD PARTY WITHOUT THE WRITTEN CONSENT OF LC FUTURE CENTER. 4. INFORMATION CONTAINED HEREIN IS NOT TO BE USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT WAS ORIGINALLY INTENDED.				 V560			0.1
Date	Wednesday, April 27, 2021			Sheet	46 of 118		

LCD POWER CIRCUIT



Security Classification		LCFC Highly Confidential Information		Title		LCFC	
Issued Date		2015-7-20		Deciphered Date		2020/02/24	
THIS SET OF ENGINEERING DOCUMENTS CONTAINS INFORMATION THAT IS THE PROPERTY OF LC FCUTLER CENTER, AND CONTAINS CONFIDENTIAL INFORMATION. IT IS TO BE KEPT UNDER THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY LC FCUTLER CENTER. WITHOUT THIS SHEET, NO INFORMATION IT CONTAINS MAY BE USED BY DISCLOSURE TO ANY OTHER PERSON WITHOUT PRIOR WRITTEN CONSENT OF LC FCUTLER CENTER.				sIDP/CMOS/Touch screen Doc# Document Number Date y560 Wednesday, April 01, 2021		Rev 1.0 Sheet 47 of 110	

LCFC Confidential

Security Classification	LC Future Center Secret Data	156	
Issued Date	20180802	Disciplined Date	20180802
COPY CMOS Touch screen			
ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE. THIS DOCUMENT IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE. THIS DOCUMENT IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE.			
LCFC			
7560			

LCFC Confidential

Security Classification		LC Future Center Secret Data		Title	
Declassified Date	2018/08/02	Declassified Date	2018/08/02	eDP/ CMOS/Touch screen	
<p>THIS DOCUMENT OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF LC FUTURE CENTER, AND CONTAINS CONFIDENTIAL INFORMATION. IT IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF LC FUTURE CENTER. ANY UNAUTHORIZED DISCLOSURE OR USE OF THIS INFORMATION IS STRICTLY PROHIBITED AND WILL BE PUNISHED BY LAW.</p>				Size	Rev
				C	0.1
				Document Number	
				Y560	
Date				Wednesday, April 01, 2021	Sheet 45 of 118

Security Classification	LCFC Highly Confidential Information		Title	
Issued Date	2010/07/02	Declassified Date	2020/02/24	
THIS INSET OF ENGINEERING DRAWINGS IS THE PROPRIETARY PROPERTY OF LC FUTURE CENTER, AND CONTAINS CONFIDENTIAL INFORMATION. IT IS TO BE KEPT SECRET AND NOT TO BE DISCLOSED OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF LC FUTURE CENTER.			Rev	
THIS INSET OF ENGINEERING DRAWINGS IS THE PROPRIETARY PROPERTY OF LC FUTURE CENTER, AND CONTAINS CONFIDENTIAL INFORMATION. IT IS TO BE KEPT SECRET AND NOT TO BE DISCLOSED OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF LC FUTURE CENTER.			1.0	
MAY BE USED OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF LC FUTURE CENTER.			Date	30 of 110
			Y560	
			Date	10/01/2021
			Sheet	30 of 110

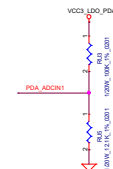
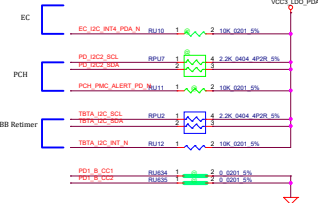
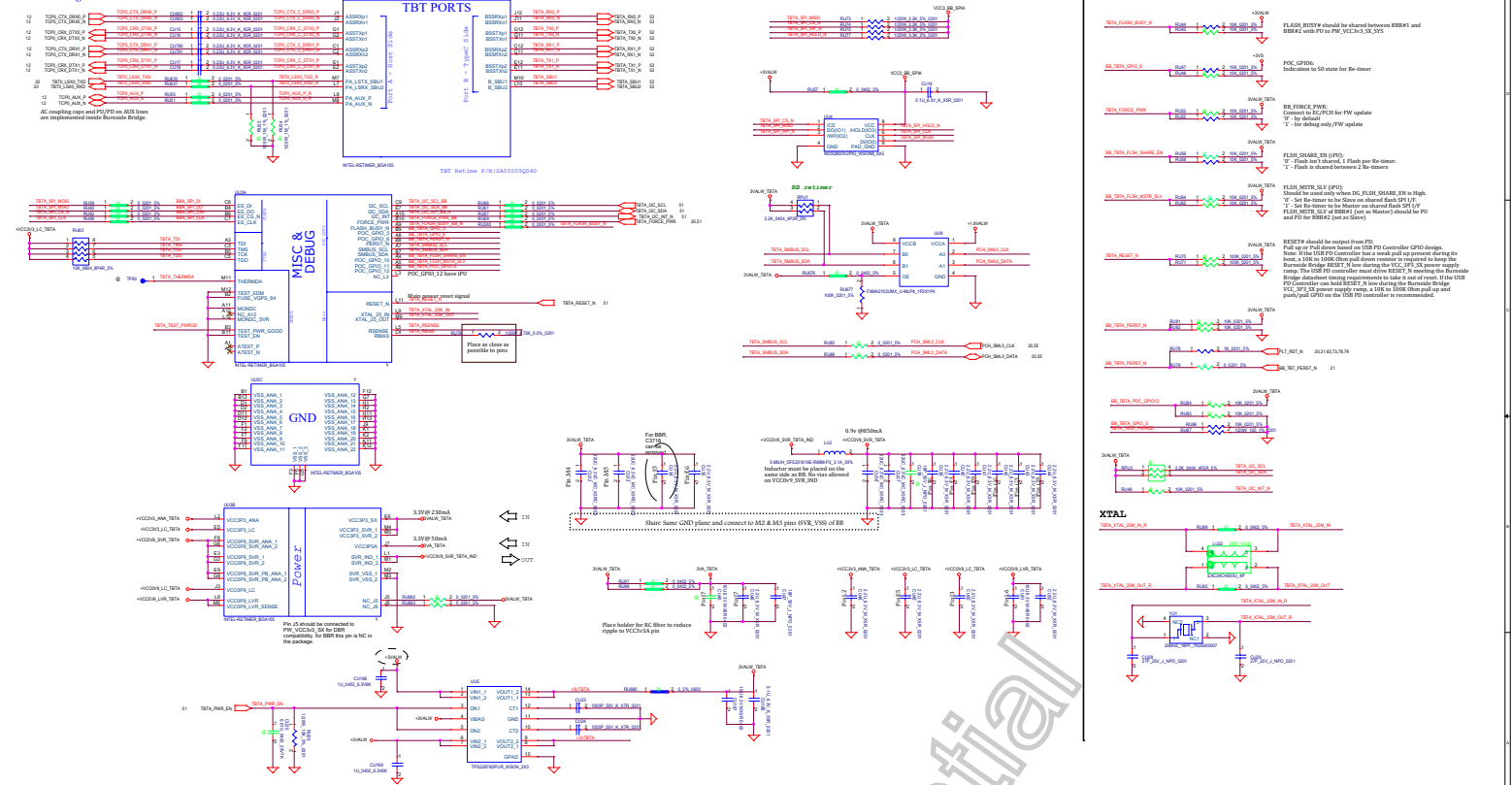
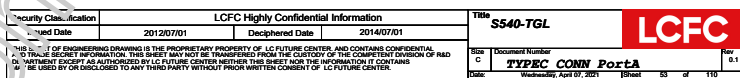
[illegible]

Figure 1: Pin connections for the ADXL345. The diagram shows a 16-pin connector with pins 1 through 16. Pins 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, and 16 are labeled with their respective functions and pin numbers. Pins 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, and 16 are labeled with their respective functions and pin numbers. Pins 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, and 16 are labeled with their respective functions and pin numbers.

[illegible]

[illegible]

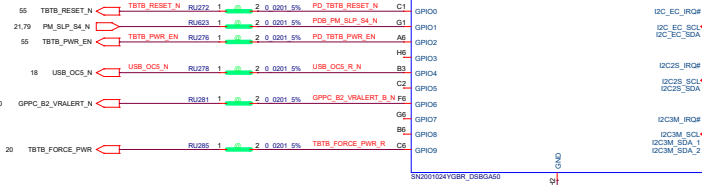


TBTB portB/left side

+3VALW

VINB_3V3

+5VALW



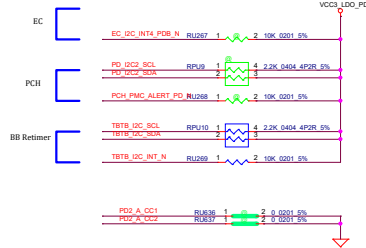
PH 3.3VALW at EC SIDE

PH 3.3VALW at PCH SIDE

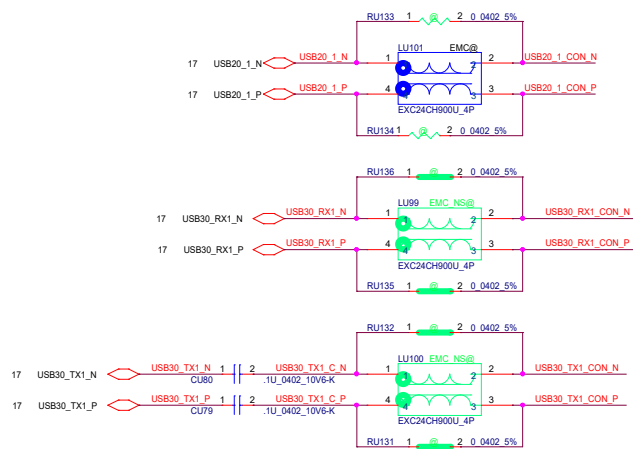
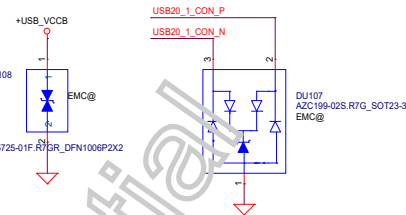
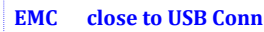
PH 3.3VALW at EC SIDE


PH 3.3VALW at PCH SIDE

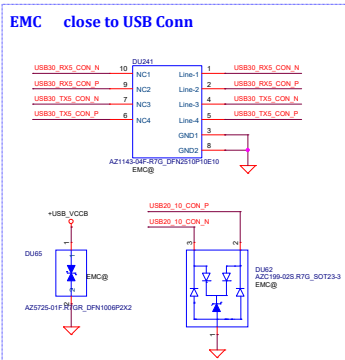
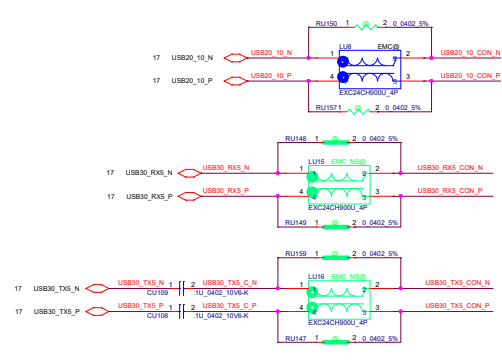
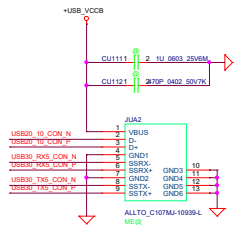
TABLE I2C Addressing			
I2C1	Master: EC	TBTB PORT	0x23
	Slave: PD	TBTB PORT	0x22
I2C2	Master: PMC	TBTB PORT	0x23
	Slave: PD	TBTB PORT	0x22
I2C3	Master: PD	TBTB PORT	0x23
	Slave: RT	TBTB PORT	0x22



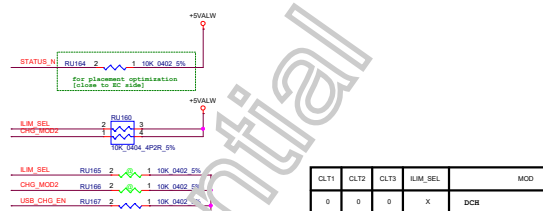
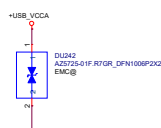
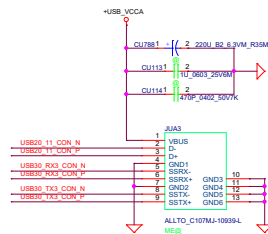
Security Classification		LCFC Highly Confidential Information		TMC S540-TGL		LCFC	
Issued Date	2012/07/01	Revised Date	2014/07/01	Size	Document Number	Rev	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF LG ELECTRONICS CO., LTD. AND CONTAINS CONFIDENTIAL INFORMATION. IT IS TO BE KEPT IN STRICTLY CONFIDENTIAL AND NOT TO BE DISCLOSED TO ANY THIRD PARTY WITHOUT THE WRITTEN PERMISSION OF LG ELECTRONICS CO., LTD. ANY VIOLATION OF THIS POLICY WILL BE SUBJECT TO LEGAL ACTION.				Sheet	54	of	110
				TYPEC Controller PortA			
				Wednesday, April 07, 2015			




Security Classification	LC Future Center Secret Data			Title			
Issued Date	2018/08/02	Declassify Date	2018/08/02	USB2.0			
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF LC FUTURE CENTER, AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED OUT OF THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY LC FUTURE CENTER MGMT. ANY INFORMATION CONTAINED HEREIN IS UNCLASSIFIED AND MAY BE USED OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF LC FUTURE CENTER.					Size B	Document Number	Rev. 01
					X560		
Date:					Wednesday, April 07, 2021	Sheet	57 of 110



Security Classification		LC Future Center Secret Data		Title	
Classified Date	2018/08/02	Deciphered Date	2018/08/02	USB2.0	
THIS IS A DRAFT OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF LC FUTURE CENTER, AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY LC FUTURE CENTER. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS SHALL BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF LC FUTURE CENTER.				Doc Number	Rev
				Y560	0.1
				Date	Wednesday, April 25, 2018
				Sheet	35 of 118



CLT1	CLT2	CLT3	RLM_BEL	MOD	
0	0	0	X	DCR	OUT held low
1	1	1	1	CDP	Data Connected and Port Power Mgt. Function Active
1	1	1	0	SDP2	Data Connected
1	1	0	X	BDP1	Data Connected
0	1	0	X	BDP1	Data Connected
1	0	0	X	DCP_Short	Device Forced to stay in DCP BC 1/2 charging mode
1	0	1	X	DCP_Divider	Device Forced to stay in DCP Divider 1 Charging Mode
0	1	1	X	DCP_Auto	Data Disconnected and Port Power Mgt. Function Active
0	0	1	X	DCP_Auto	Data Disconnected and Power Wake Function Active

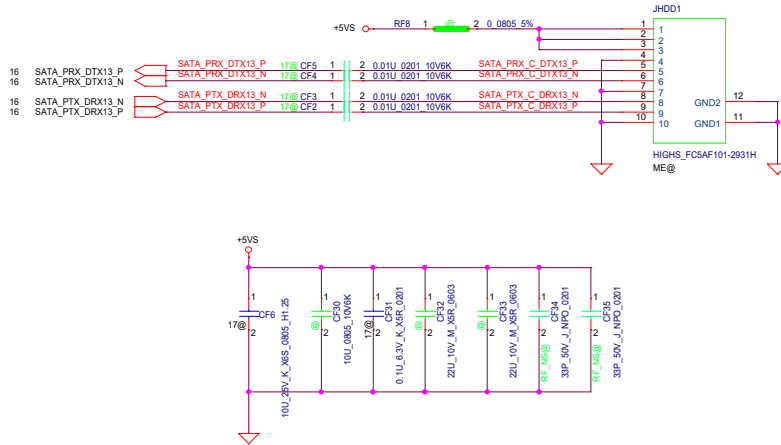
Security Classification		LC Future Center Secret Data		Title			
Issued Date	2018/08/02	Deciphered Date	2018/08/02	US2.0/USB3.0 PORT (LEFT)			
THIS IS A DRAWING OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF LC FUTURE CENTER AND CONTAINS CONFIDENTIAL INFORMATION. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF LC FUTURE CENTER.				Size C Document Number x560		Rev 01 of 110	
THIS DRAWING IS THE PROPERTY OF LC FUTURE CENTER AND CONTAINS CONFIDENTIAL INFORMATION. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF LC FUTURE CENTER.				Date <u>Wednesday, April 04, 2021</u>		Sheet 56 of 110	

Delete USB3.0 Reapter Remove to DB board

LCFC Confidential

Security Classification	LC Future Center Secret Data		100
Revised Date	20180802	Disposal Date	20180802
ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE. THIS DOCUMENT IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE. THIS DOCUMENT IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE.			LCFC
ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE. THIS DOCUMENT IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE.			Y260

SATA HDD Conn.

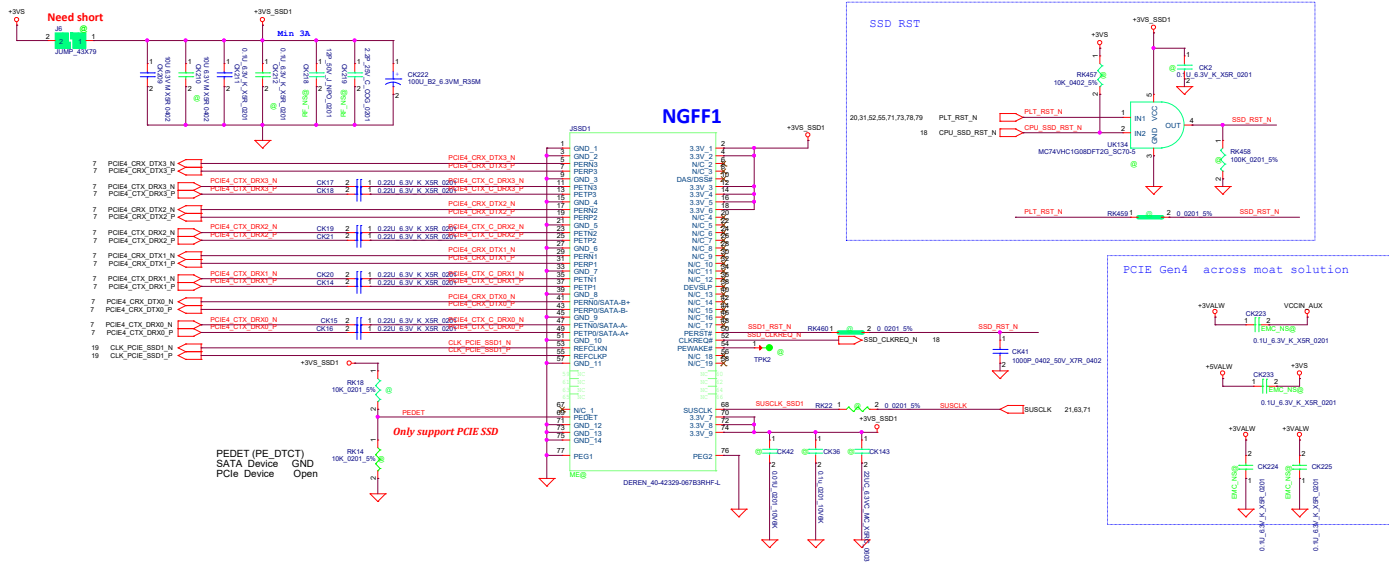


Security Classification	LC Future Center Secret Data	
Issued Date	2018/08/02	Declassify Date
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF LC FUTURE CENTER, AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED OUT OF THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY LC FUTURE CENTER. IF IT IS NOT, THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PERMISSION IN WRITING FROM LC FUTURE CENTER.		

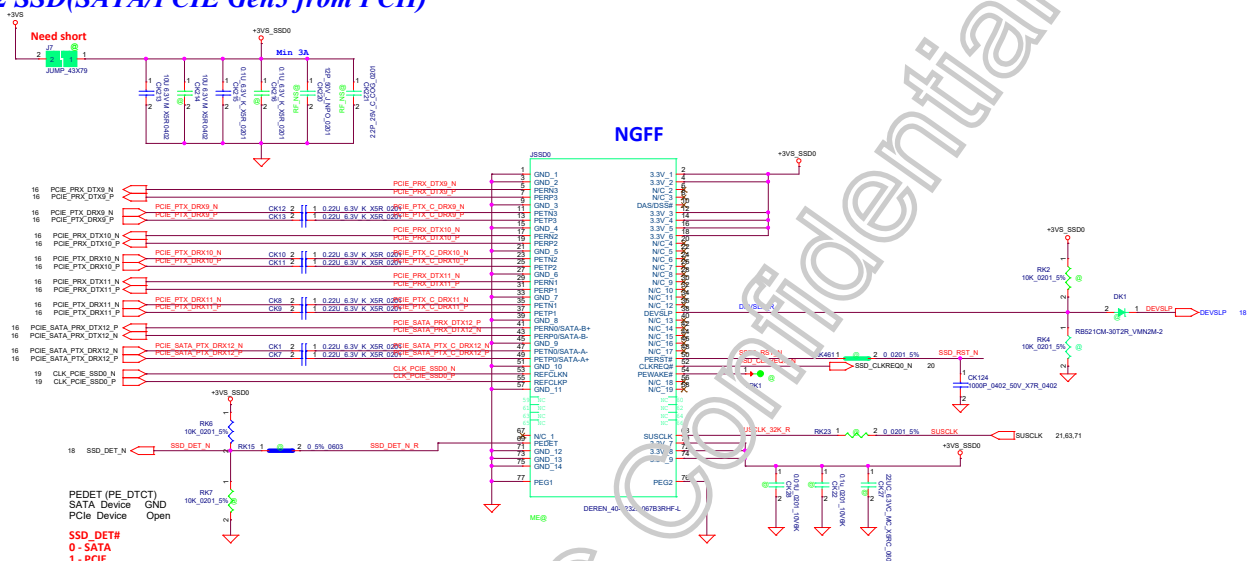
Title	HDD/XBOX CONN	
Size	Document Number	Rev
B	Y560	0.3
Date:	Wednesday, April 07, 2021	Sheet 61 of 110

A		B		C		D		E		F		G		H	
1															
2															
3															
4															

M.2 SSD(PCIE GEN4 from CPU)



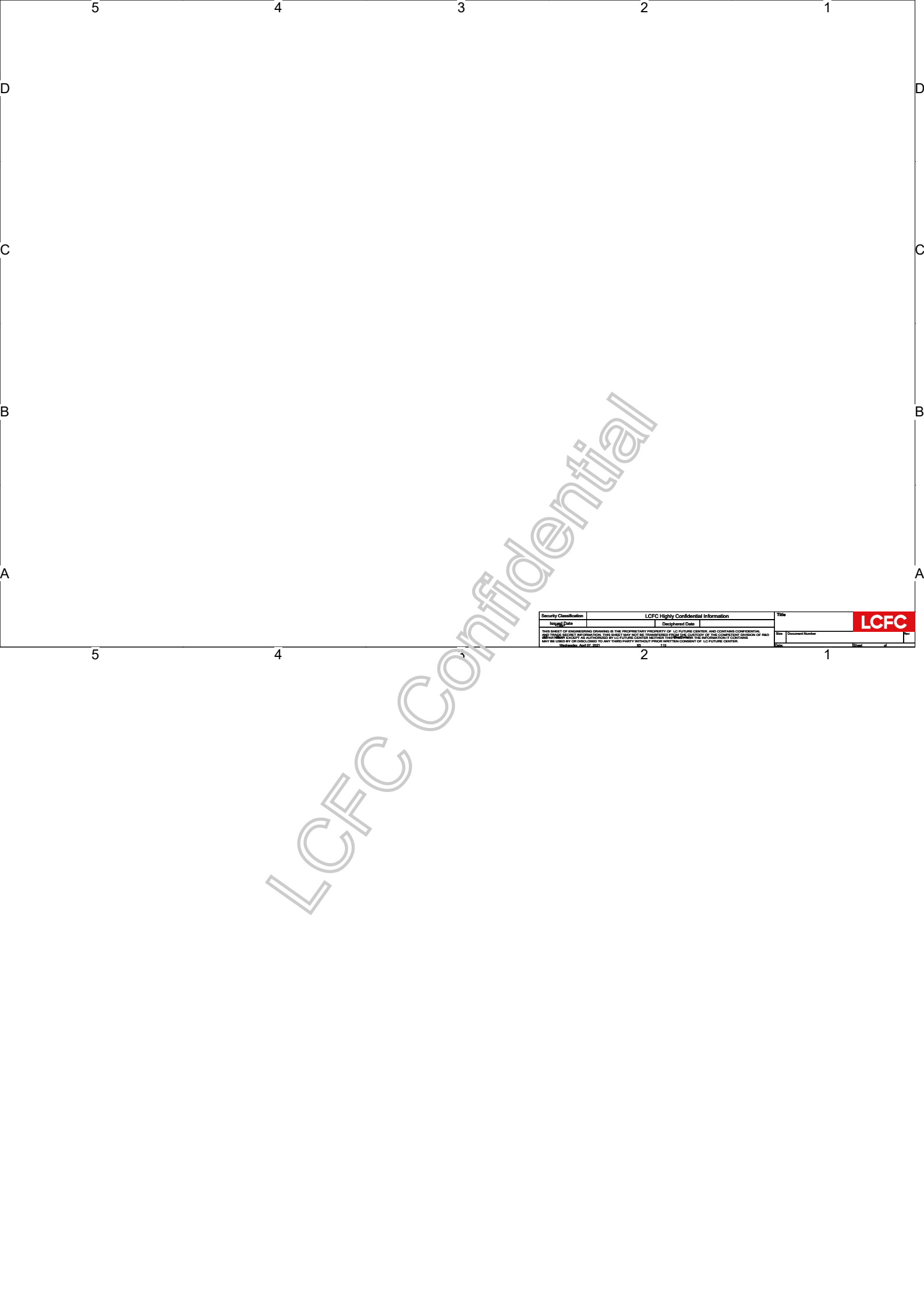
M.2 SSD(SATA/PCIE Gen3 from PCH)



Security Classification			LC Future Center Secret Data		Title	NGFF WLAN	ICFC
Issued Date	2018/08/02	Deciphered Date	2018/08/02				
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF LC FUTURE CENTER, AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY LC FUTURE CENTER. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF LC FUTURE CENTER.					Doc Number	Y560	Rev 0.1
					Date	Wednesday, April 07, 2021	Sheet 85 of 110

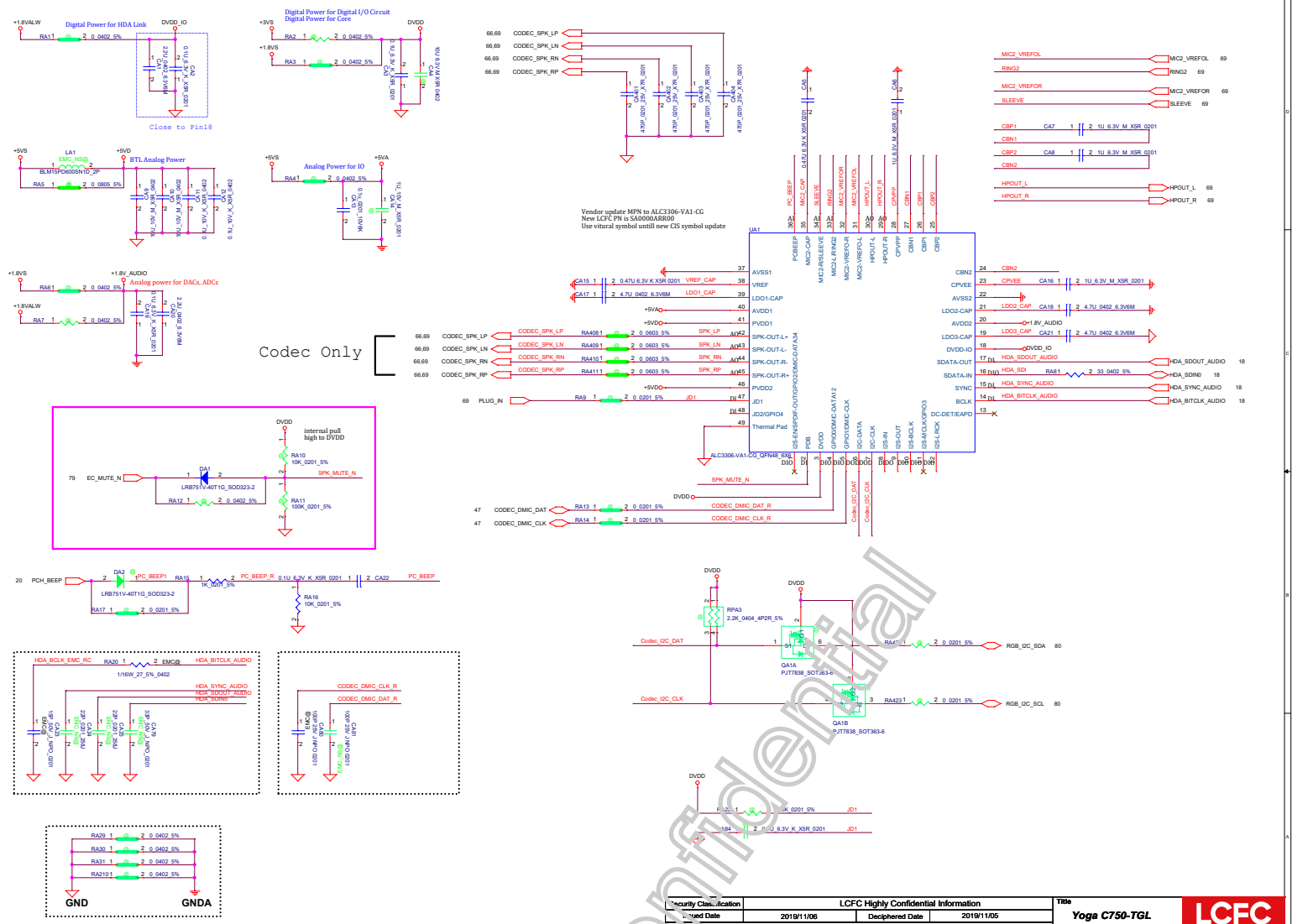
Delete USB3.0 Reapter Remove to DB board

Security Classification		LCFC Highly Confidential Information		Title	
Declassified Date	2019/07/02	Deciphered Date	2020/02/24	DC V TO VS INTERFACE	
THIS DRAWING OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF LC FUTURE CENTER, AND CONTAINS CONFIDENTIAL INFORMATION. IT IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE PRIOR WRITTEN PERMISSION OF LC FUTURE CENTER. ANY UNAUTHORIZED DISCLOSURE OR USE OF THIS INFORMATION IS STRICTLY PROHIBITED AND WILL BE PUNISHED BY LAW.				Rev	0.1
				Document Number	Y560
				Date	Wednesday, April 01, 2020
				Sheet	05 of 110



5		4		3		2		1	
D									
C									
B									
A									
5		4		3		2		1	

Security Classification		LCFC Highly Confidential Information		Title	
Issued Date		Deciphered Date		<div>LCFC</div>	
<p>THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF LC FUTURE CENTER, AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSMITTED FROM THE CUSTODY OF THE COMPANY SOURCE OF ORIGIN OR REPRODUCED OR USED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF LC FUTURE CENTER. THE INFORMATION CONTAINED HEREIN IS UNCLASSIFIED TO ANY THIRD PARTY WITHOUT THE WRITTEN CONSENT OF LC FUTURE CENTER.</p>					
Worksheet and/or Plot		100		Size	
				Document Number	
				Rev	
				Date	



LCFC Highly Confidential Information				Title	
Security Classification	2019/11/06	Deciphered Date	2019/11/06	Yoga C750-TGL	LCFC
Issued Date	2019/11/06	Deciphered Date	2019/11/06	Document Number	Audio Codec
<small>THIS IS A DRAFT OF ENGINEERING DRAWING. IT IS THE PROPRIETARY PROPERTY OF LG FUTURE CENTER, AND CONTAINS CONFIDENTIAL INFORMATION. IT IS NOT TO BE RELEASED OR REPRODUCED WITHOUT THE WRITTEN PERMISSION OF LG FUTURE CENTER. IT IS NOT TO BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF LG FUTURE CENTER.</small>				Date	Wednesday, April 10, 2021
				Page	85 of 110

LCFC Confidential

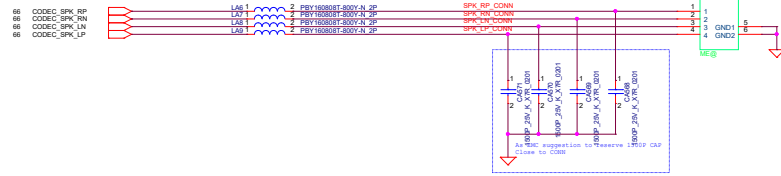
Security Classification		LCFC Highly Confidential Information		Title	
Declassified Date	2019/11/05	Declassified Date	2019/11/05	Yoga C750-TGL	
THIS IS A DRAFT OF AN ENGINEERING DRAWING. IT IS THE PROPRIETARY PROPERTY OF LC FUTURE CENTER, AND CONTAINS CONFIDENTIAL INFORMATION. IT IS NOT TO BE RELEASED OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF LC FUTURE CENTER. IT IS NOT TO BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT THE WRITTEN CONSENT OF LC FUTURE CENTER.				Size	Document Number
				Audio Amplifier	
				Issue	Wednesday, April 24, 2024
				Sheet	15

LCFC Confidential

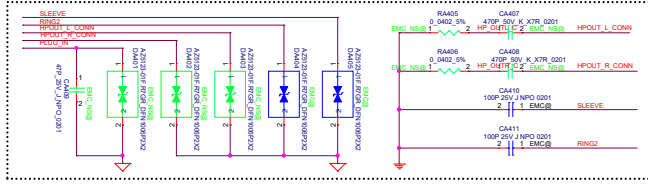
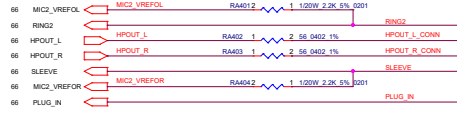
Security Classification		LCFC Highly Confidential Information		Title	
Declassified Date	2019/11/05	Declassified Date	2019/11/05	Yoga C750-TGL	
THIS IS A DRAFT OF AN ENGINEERING DRAWING. IT IS THE PROPRIETARY PROPERTY OF LC FUTURE CENTER, AND CONTAINS CONFIDENTIAL INFORMATION. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE PRIOR WRITTEN PERMISSION OF LC FUTURE CENTER. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY LC FUTURE CENTER. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS IS TO BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF LC FUTURE CENTER.				Size	Document Number
				Audio DSP	
				Issue	Wednesday, April 27, 2021
				Sheet	95 of 115



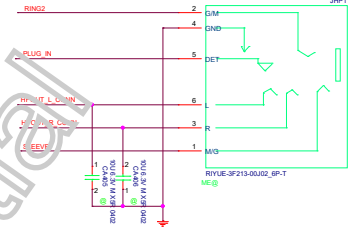
Speaker



SPK L+ L- R+ R- trace width
Speaker 4 ohm ==> 40 mils
Speaker 8 ohm ==> 20 mils



Audio Jack



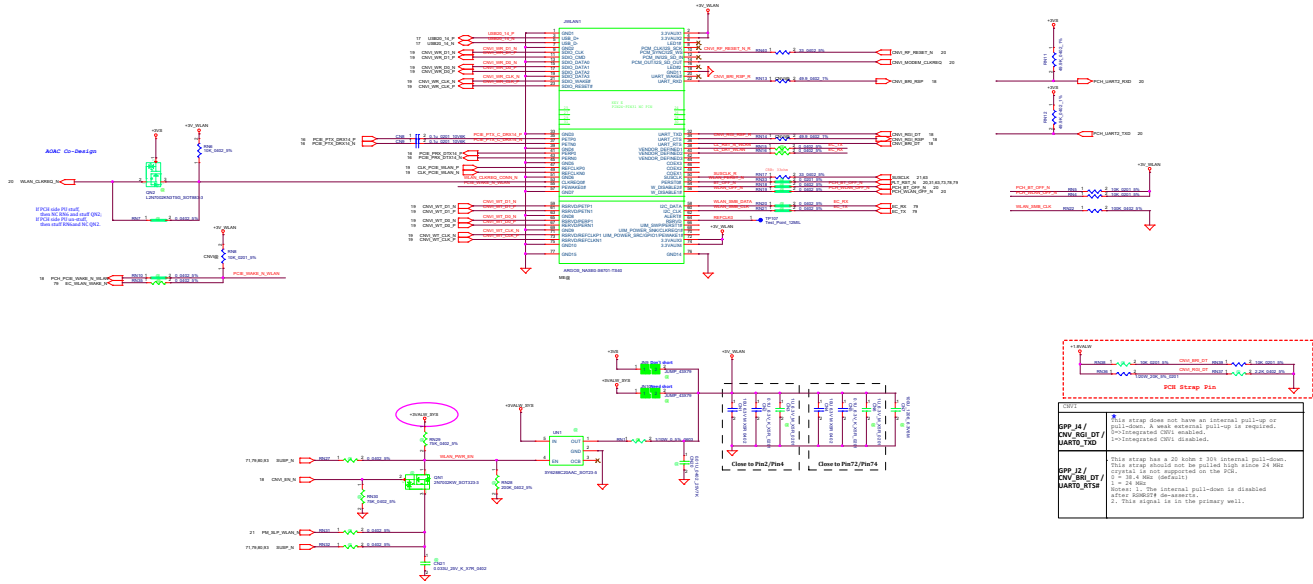
LCFC Highly Confidential Information				Title		LCFC
Security Classification	Declassified Date	2019/11/06	Declassified Date	2019/11/06	Yoga C750-TGL	
THIS DOCUMENT IS THE PROPERTY OF LCFC. IT IS TO BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF LCFC. IT CONTAINS CONFIDENTIAL INFORMATION. THIS SHEET MAY NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. IT IS TO BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF LCFC.						Rev
Doc No	Document Number	Audio SPK/Jack			0.2	
Date	Wednesday, April 10, 2021	Sheet	05	of	110	

LCFC Confidential

Security Classification		LCFC Highly Confidential Information		Title	
Declassified Date	2019/07/02	Deciphered Date	2020/02/24	DC V TO VS INTERFACE	
<small>THIS DRAWING OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF LC FUTURE CENTER, AND CONTAINS CONFIDENTIAL INFORMATION. IT IS TO BE KEPT SECRET. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY LC FUTURE CENTER. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS IS TO BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF LC FUTURE CENTER.</small>				Size	Document Number
				C	Y560
				Date: Wednesday, April 01, 2021 Sheet: 35 of 118	

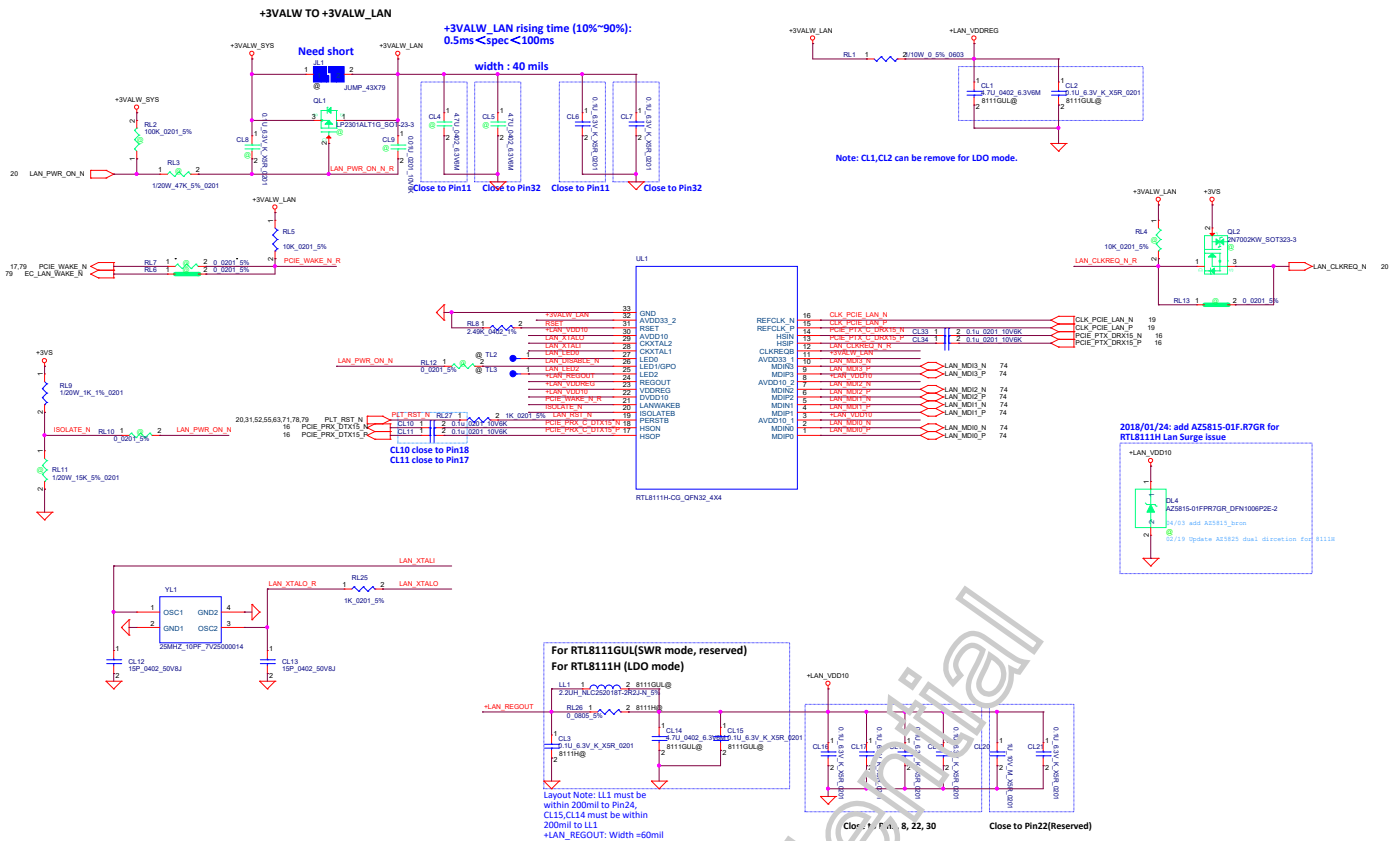
LCFC

Mini-Express Card(WLAN/WiMAX)




Security Classification	LC Future Center Secret Data		Rev
Revised Date	20100802	Original Date	20100802
THE CONTENT OF THIS DOCUMENT IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE. IT IS NOT TO BE RELEASED TO THE PUBLIC OR TO ANY OTHER PERSON WITHOUT THE WRITTEN AUTHORIZATION OF THE ISSUING OFFICE.			
SECURITY CLASSIFICATION UNCLASSIFIED		SECURITY CLASSIFICATION UNCLASSIFIED	

5					4					3					2					1				
D																								
C																								
B																								
A																								
5					4					3					2					1				
Security Classification					LC Future Center Secret Data										Title					Yx60-Reserved				
Issued Date					2019/11/06					Decommission Date					2019/11/05					Size				
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF LC FUTURE CENTER, AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED OUT OF THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY LC FUTURE CENTER. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF LC FUTURE CENTER.																								
Document Number					Reserved										Date:					Wednesday, April 07, 2021				
Rev					0.2										Sheet					72 of 110				

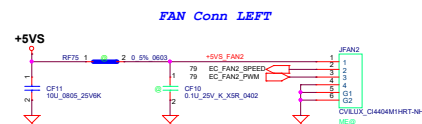
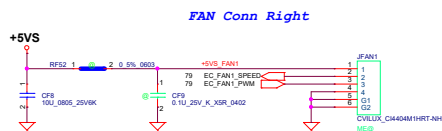



Security Classification		LCFC Highly Confidential Information		Title	
Classified Date	2019/07/02	Declassified Date	2020/02/24	LAN_RTL8111H-G0-QFN32_4X4	LCFC
THIS DOCUMENT IS UNCLASSIFIED EXCEPT AS AUTHORIZED BY LCFC CENTER. NEITHER THIS DOCUMENT NOR THE INFORMATION IT CONTAINS SHALL BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF LCFC CENTER.					
Doc No.	LAN	Doc No.	LAN	Doc No.	LAN
Doc No.	LAN	Doc No.	LAN	Doc No.	LAN

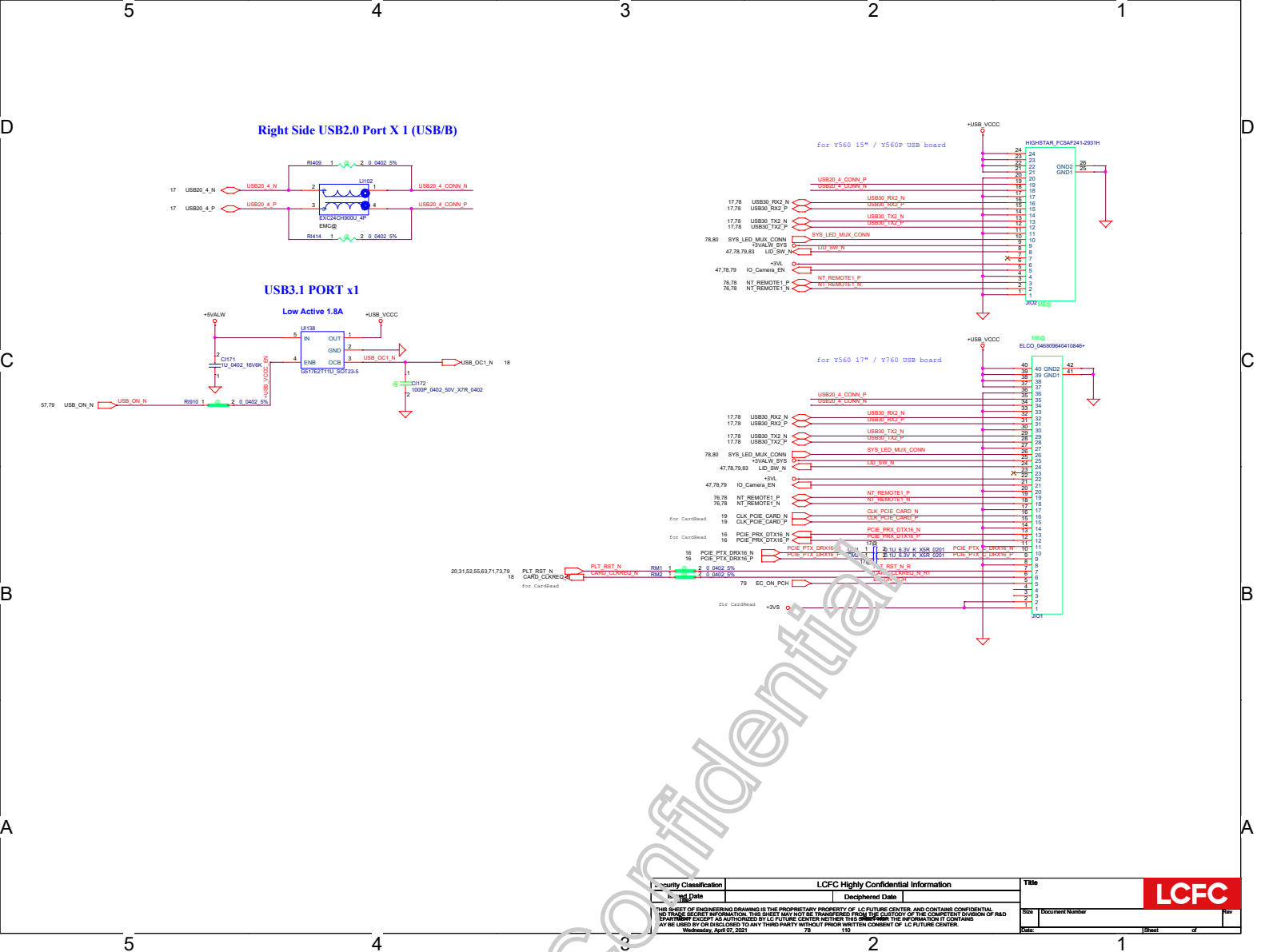
Security Classification		LCFC Highly Confidential Information		Title	
Issued Date		Declassified Date		DC V TO VS INTERFACE	
20190702		20200224			
<p>THIS IS A DRAWING OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF LC FCUTURE CENTER AND CONTAINS CONFIDENTIAL INFORMATION. THIS INFORMATION IS NOT TO BE RELEASED OR DISCLOSED TO ANY OTHER PARTY WITHOUT THE WRITTEN CONSENT OF LC FCUTURE CENTER. THE INFORMATION CONTAINED HEREIN IS THE PROPERTY OF LC FCUTURE CENTER AND IS NOT TO BE RELEASED OR DISCLOSED TO ANY OTHER PARTY WITHOUT THE WRITTEN CONSENT OF LC FCUTURE CENTER.</p>					
Size		Document Number		Rev	
A		Y560		1.0	
Date		Wednesday, April 9, 2021		Sheet	
				74 of 119	

Remove TOF sensor

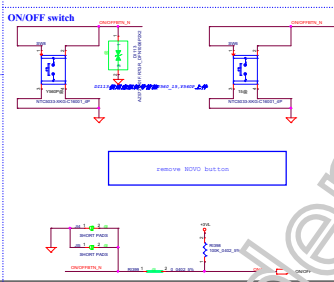
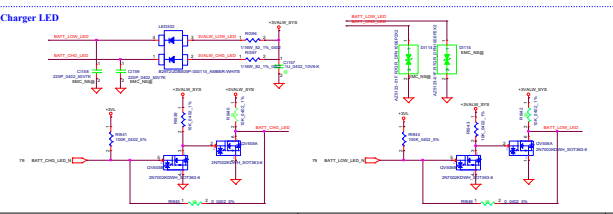
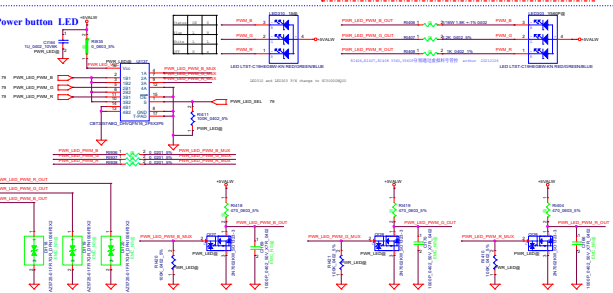
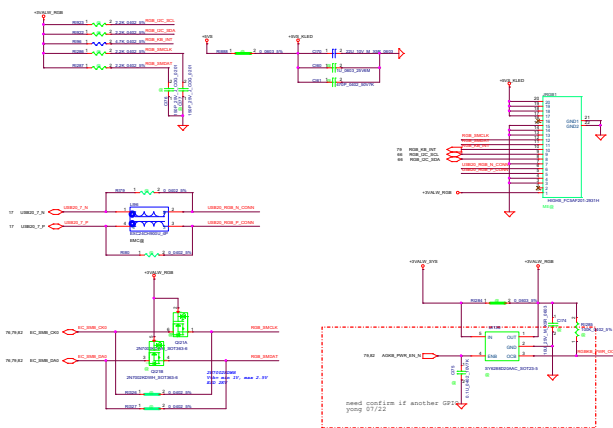




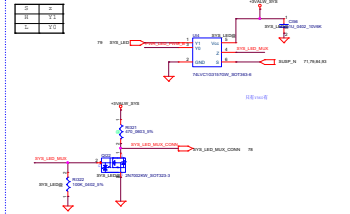
Security Classification			LC Future Center Secret Data			Title			
Declassified Date		2018/08/02	Deciphered Date		2018/08/02	Thermal sensor/FAN CONN			
<p>THIS DOCUMENT OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF LC FUTURE CENTER, AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY LC FUTURE CENTER. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF LC FUTURE CENTER.</p>									
Doc Number		Y560					Rev		0.1
Date		Wednesday, April 01, 2020					Sheet		17 of 110



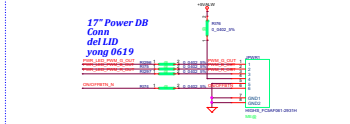
Security Classification		LCFC Highly Confidential Information		Title	
Classification	Date	Declassified Date		LCFC	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF LC FUTURE CENTER AND CONTAINS CONFIDENTIAL INFORMATION. NO TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PRIOR WRITTEN PERMISSION FROM LC FUTURE CENTER. ANY USE BY OR DISCLOSURE TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF LC FUTURE CENTER.					
Wednesday, April 27, 2021	78	110		Sheet	of



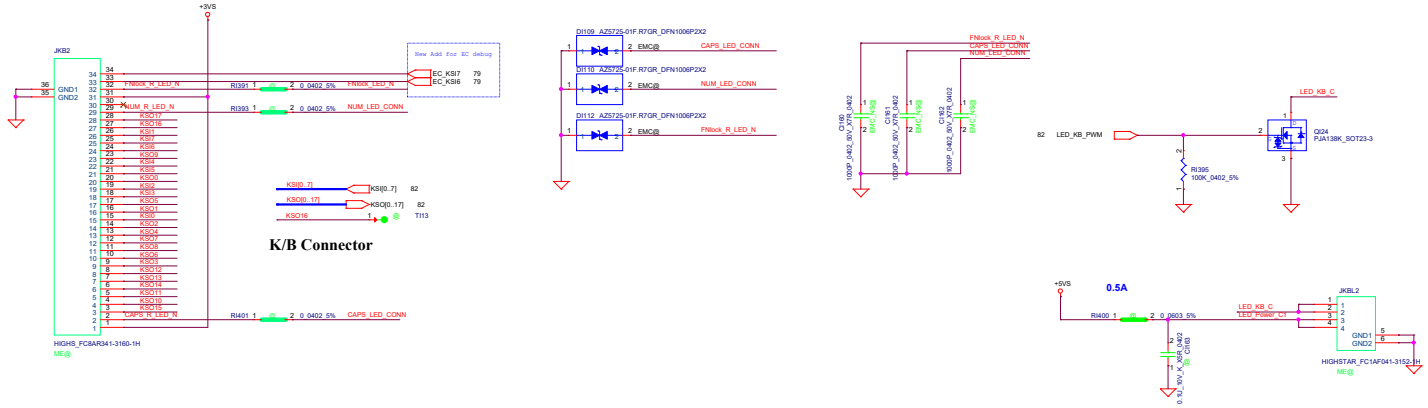
system LED



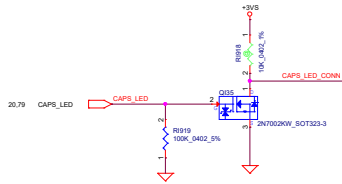
17" Power DB
Conn
del LID
yong 0619



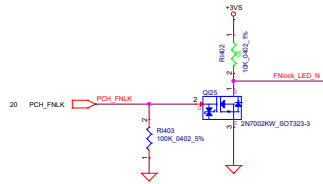
Security Classification	LCFC Highly Confidential Information	Rev	DC V TO VS INTERFACE	LCFC
Revised Date	20180702	Original Date	20180701	
This document is for internal use only. It is not to be distributed outside the organization. It is not to be used for any other purpose. It is not to be used for any other purpose. It is not to be used for any other purpose.				
Y560				



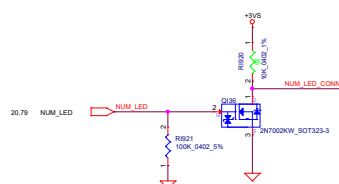
K/B Connector



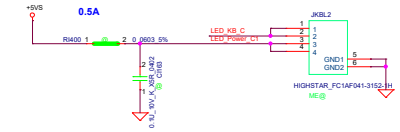
20.79 CAPS_LED



20 PCH_FNLK

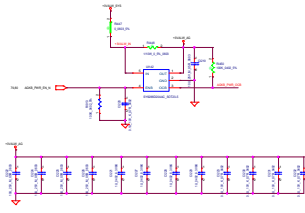


20.79 NUM_LED

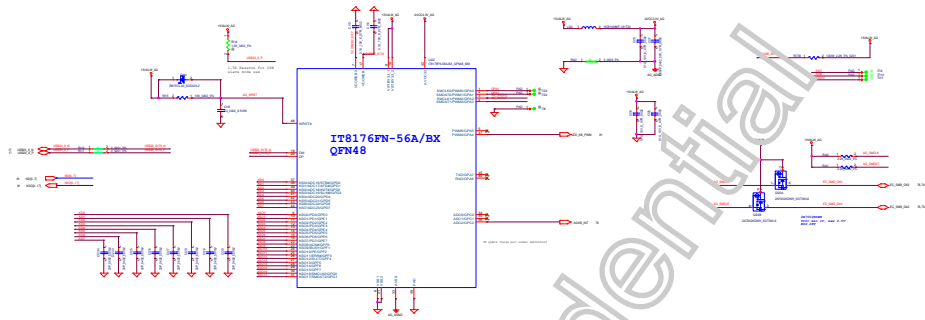


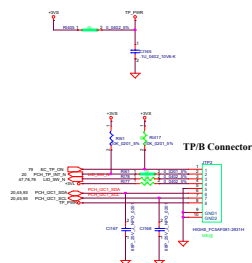
Security Classification				Title	
LCFC Highly Confidential Information				DC V TO VS INTERFACE	
Classified Date	2019/07/02	Deciphered Date	2020/02/24	Doc Number	Y560
THIS DOCUMENT IS THE PROPERTY OF LCFC FUTURE CENTER, AND CONTAINS CONFIDENTIAL INFORMATION. IT IS TO BE KEPT SECRET AND NOT TO BE DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF LCFC FUTURE CENTER.				Date	Wednesday, April 01, 2021
				Sheet	81 of 118

LCFC

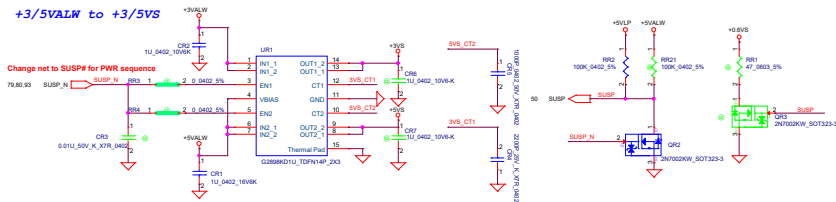


IT8176

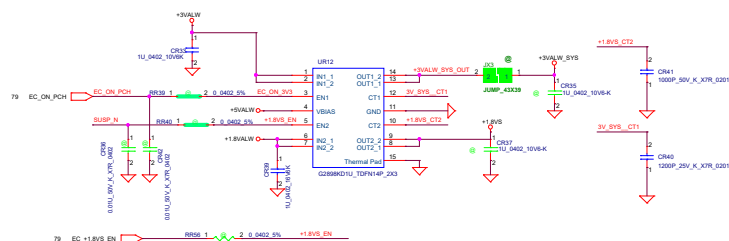
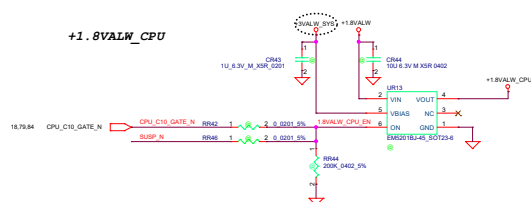




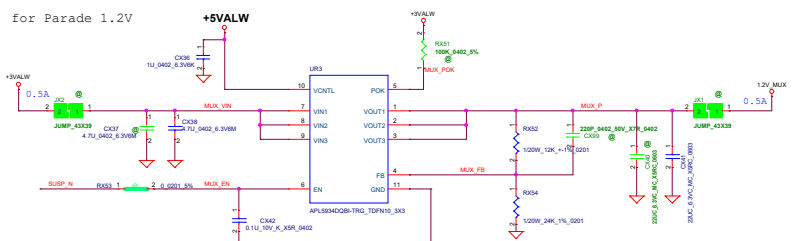
+3/5VALW to +3/5VS



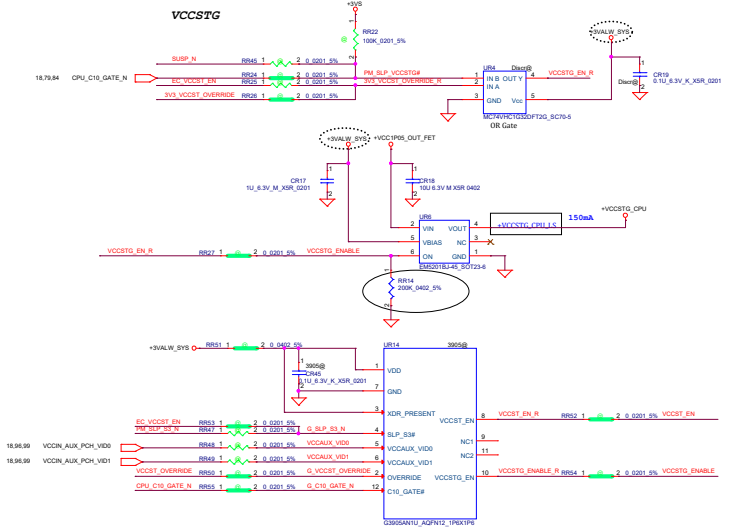
+1.8VALW_CPU



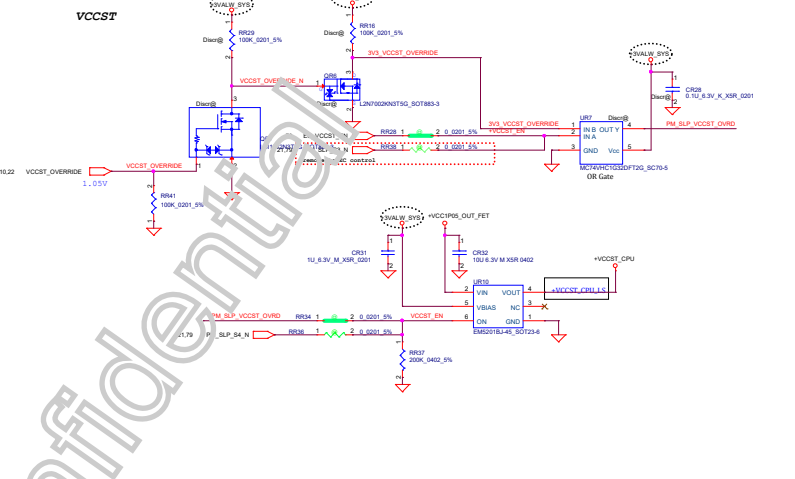
for Parade 1.2V




VCCSTG

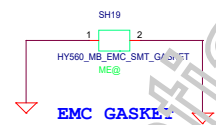
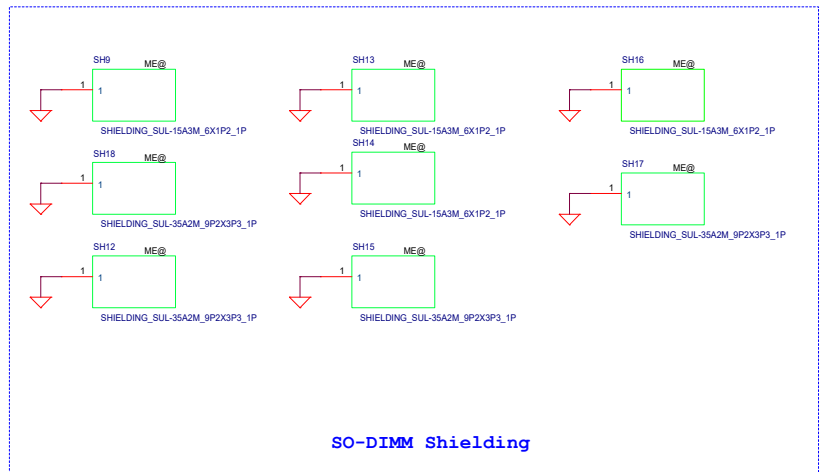
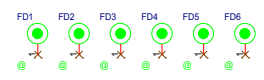
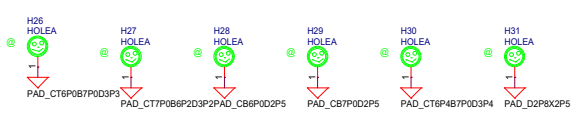
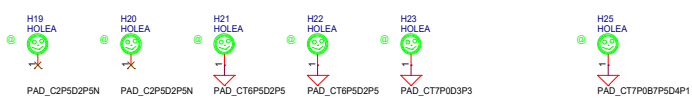
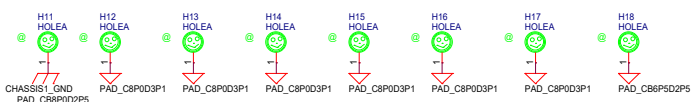
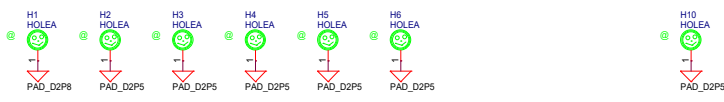


VCCST

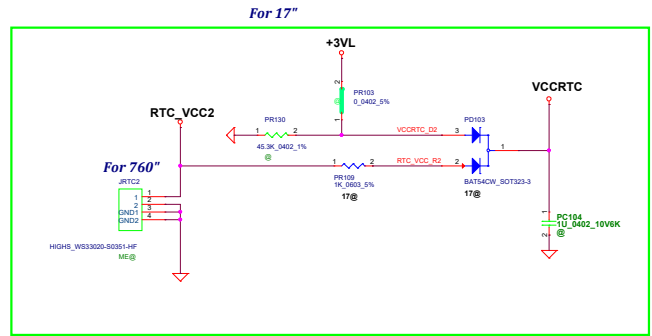
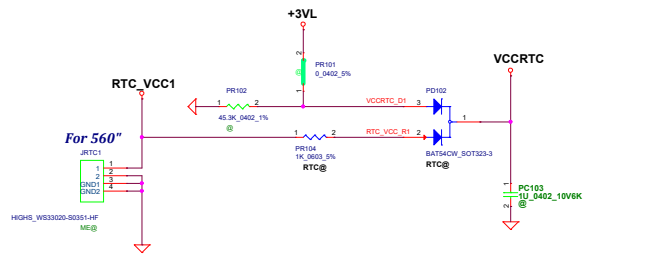
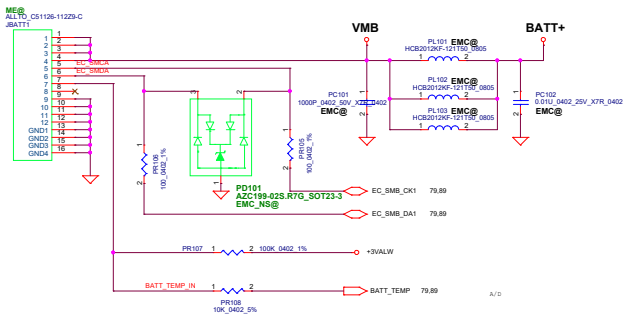


LC Future Center Secret Data				Title	
Issued Date	2018/08/02	Deciphered Date	2018/08/02	DC V TO VS INTERFACE	
THIS SHEET OF ENGINEERING DRAWINGS IS THE PROPRIETARY PROPERTY OF LC FUTURE CENTER AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSMITTED FROM THE CUSTODY OF THE COMBAT COMMAND OF THE DEPARTMENT EXCEPT AS AUTHORIZED BY LC FUTURE CENTER. WITHIN THE CUSTODY OF THE COMBAT COMMAND OF THE DEPARTMENT, THIS SHEET MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT WRITTEN CONSENT OF LC FUTURE CENTER.				Doc Number	Y560
				Rev	6.1
				Rev	Wednesday, April 10, 2025 10:00 AM 118

Security Classification	LC Future Center Secret Data		Title		
Issued Date	2019/11/06	Declassify Date	2019/11/05		Yx60 TGL-H
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF LC FUTURE CENTER, AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED TO THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY LC FUTURE CENTER. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT THE WRITTEN CONSENT OF LC FUTURE CENTER.					
Size	Document Number		Reserved		Rev 0.2
Date:	Wednesday, April 07, 2021		Sheet	85 of 110	



Security Classification	LC Future Center Secret Data		Title	Hole	
Issued Date	2018/08/02	Declassify Date	2018/08/02	Size	Document Number
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF LC FUTURE CENTER AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSMITTED, REPRODUCED, COPIED, OR DISCLOSED TO ANY THIRD PARTY WITHOUT THE WRITTEN PERMISSION OF LC FUTURE CENTER.				Rev	0.1
				Date:	Wednesday, April 07, 2021
				Sheet	86 of 110



Security Classification		LC Future Center Secret Data		Title	
Classified Date	2018/08/02	Declassified Date	2018/08/02	PWR_DCIN/RTC	
THIS DRAWING IS THE PROPERTY OF LC FUTURE CENTER, AND CONTAINS CONFIDENTIAL INFORMATION. IT IS TO BE KEPT SECRET AND NOT TO BE DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF LC FUTURE CENTER.				Doc Number	Y560 AMD
				Rev	0.1
				Date	Wednesday, April 07, 2021
				Sheet	01 of 10

ACDET Threshold:min:17.878V
BAT Max V=17.6V

PMON Gain=1uA/W Actuel=0.5uA/W
PR5415=15K 0.75V=100W

IchargeLim=16.1A
IDischargeLim=64.4A

V charge (MAX):17.6V
I charge (MAX):112A
FSW:800K

Rev	Document Number	Date	Author	Checked	By	of
1	Y560	2018/08/02	W			13

LC Future Center Secret Data

2018/08/02


2018/08/02

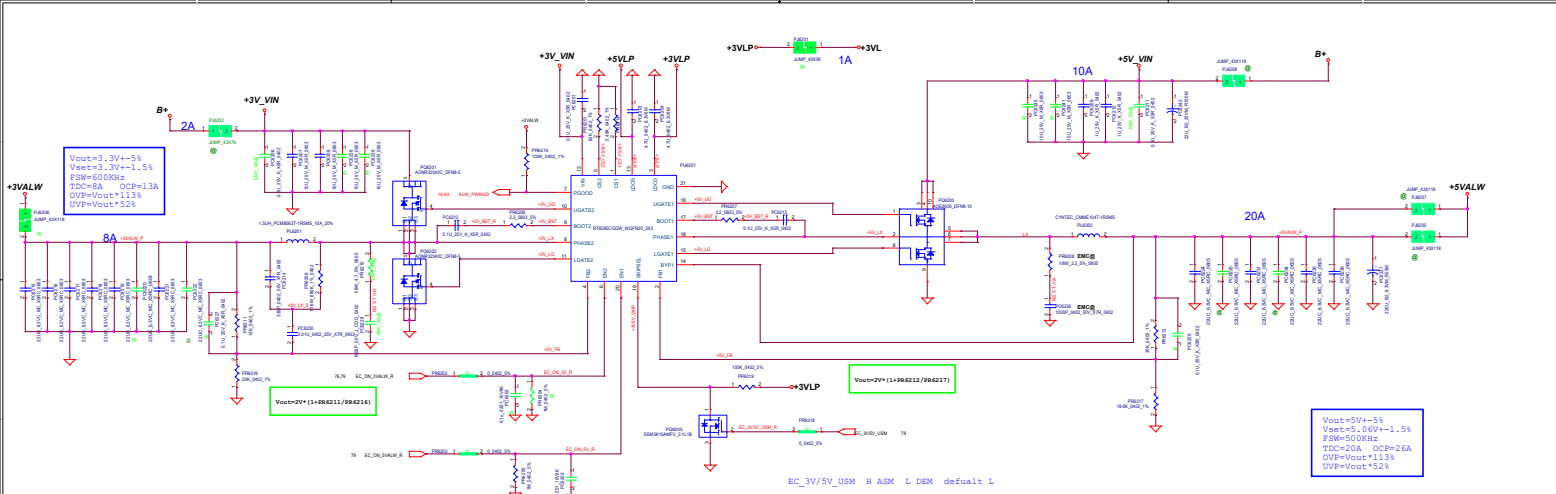
PWR-charger

Y560

13

LCFC Confidential

Security Classification			LC Future Center Secret Data			Title					
Declassified Date			Deciphered Date			PWR_Memory PWR Decoupling					
2018/08/02			2018/08/02								
<p>THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF LC FUTURE CENTER, AND CONTAINS CONFIDENTIAL INFORMATION. ANY DISCLOSURE OR REPRODUCTION OF THIS SHEET WITHOUT THE WRITTEN PERMISSION OF LC FUTURE CENTER IS STRICTLY PROHIBITED. ANY VIOLATION OF THIS POLICY WILL BE SUBJECT TO LEGAL ACTION.</p>											
Size			Document Number			Sheet			1 of 1		
			Y560 AMD								
Date			Wednesday, April 17, 2021			Sheet			95 of 115		



	RT6585C	RT6575D&TPS51275B
Mode	DEM/USM	USM/CCM
3V FSW	600K	355K
5V FSW	500K	300K
CSx	$R_{limit} = (I_{limit} * R_{ds(on)}) * 8 / 50A$	$R_{limit} = (I_{limit} * R_{ds(on)}) * 8 / 10A$


RT6585B&TPS51285B BOM to BOM

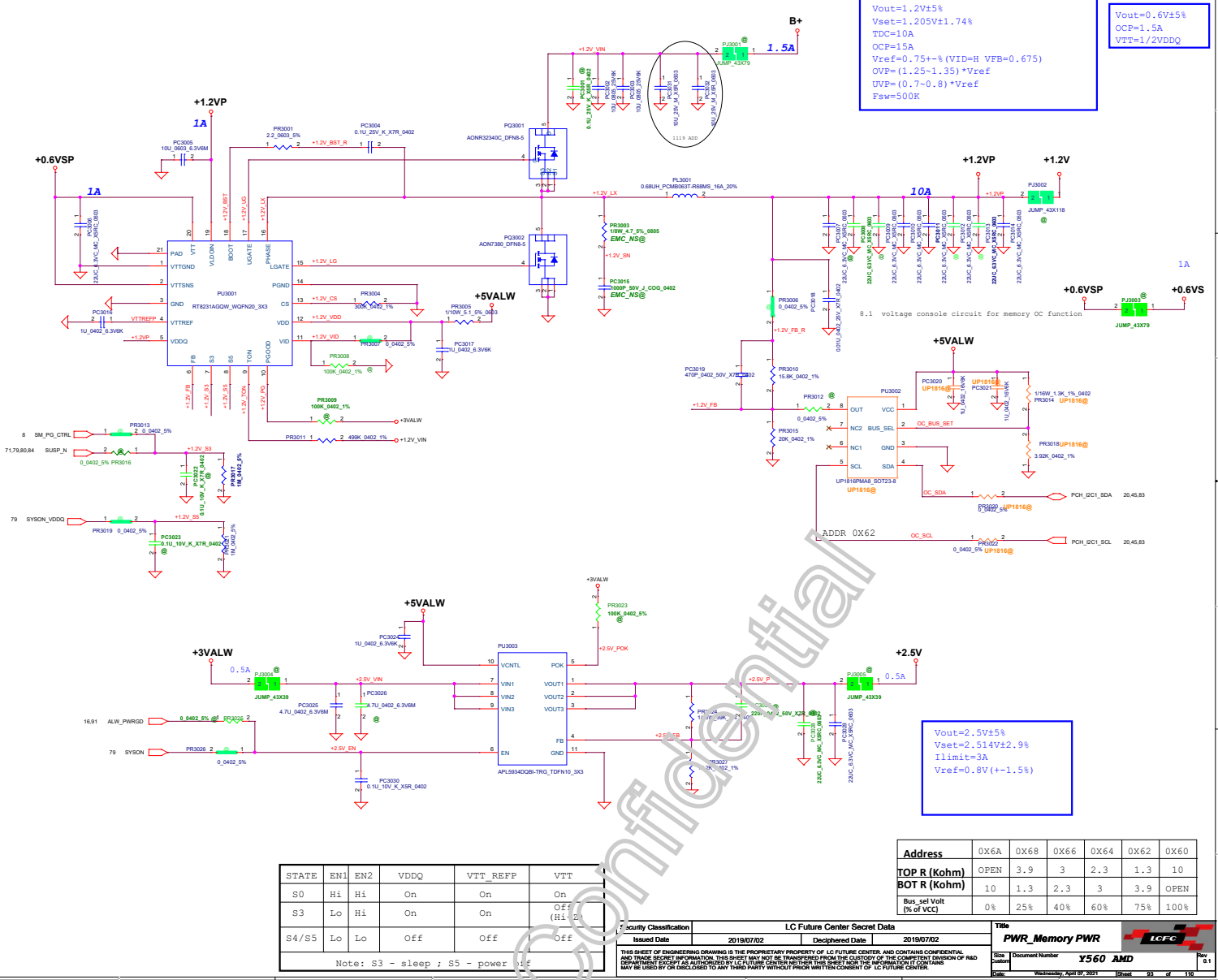
RT6575D&TPS51275B BOM to BOM

RT6585B&RT6575D PIN to PIN, with different work mode, FSW, and CS setting

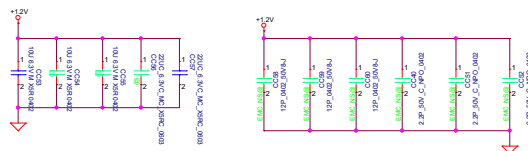
Security Classification		LCFC Highly Confidential Information		Rev	SS40-TGL	LCFC
Issued Date	20150701	Designated Date	20150701			
FMR 3VALW/5VALW						1.1

LCFC Confidential

Security Classification		LC Future Center Secret Data		Title	
Declassified Date		Deciphered Date		5VALW	
2018/08/02		2018/08/02			
<p>THIS IS A COPY OF AN ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF LC FUTURE CENTER, AND CONTAINS CONFIDENTIAL INFORMATION. IT IS TO BE KEPT SECRET. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY LC FUTURE CENTER. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS IS TO BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF LC FUTURE CENTER.</p>				Rev	
				0.1	
				Date	
Wednesday, April 27, 2021		Sheet		95 of 110	

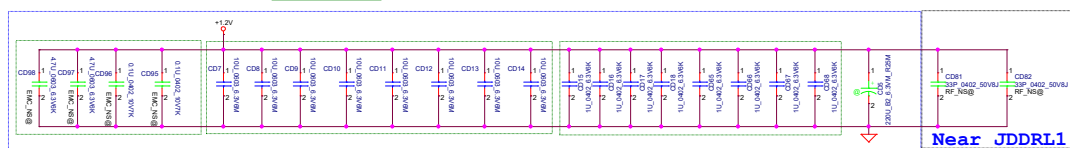


CPU

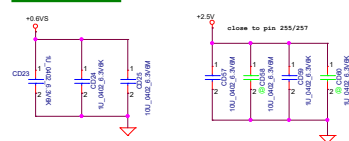


JDDRL1

Layout Note:
Place near DIMM

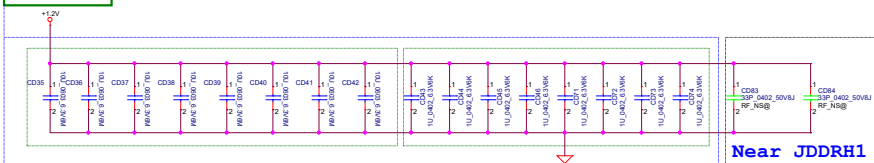


Layout Note:
Place near DIMM

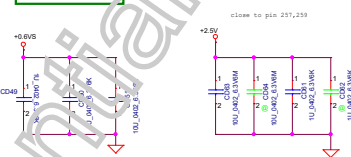



JDDRH1

Layout Note:
Place near DIMM

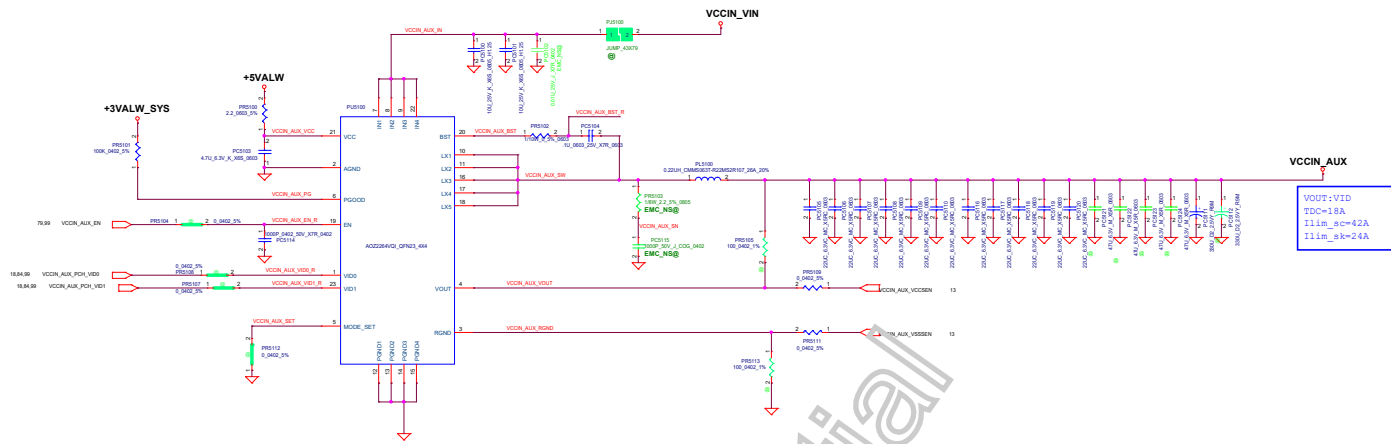


Layout Note:
Place near DIMM



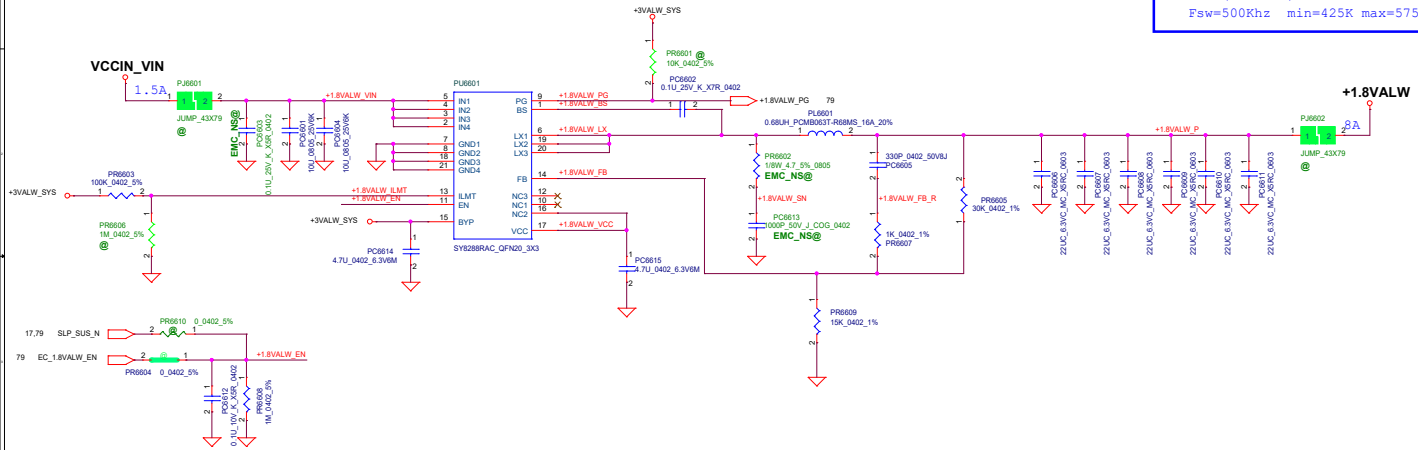
Security Classification	LC Future Center Secret Data		Title	
Issued Date	2018/08/02	Deciphered Date	2018/08/02	
THIS IS A DRAFT OF AN ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF LC FUTURE CENTER AND CONTAINS CONFIDENTIAL AND SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISIONS OF R&D TO BE USED OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF LC FUTURE CENTER.			PWR_Memory PWR Decoupling	
Size	Document Number		Rev	
Scale	Y560 AMD		0	
Unit	mm		mm	
Sheet	94		of 110	

VOUT Setting	VID0	VID1
1.8V	H	H
1.65V	L	H
1.1V	H	L
0V	L	L

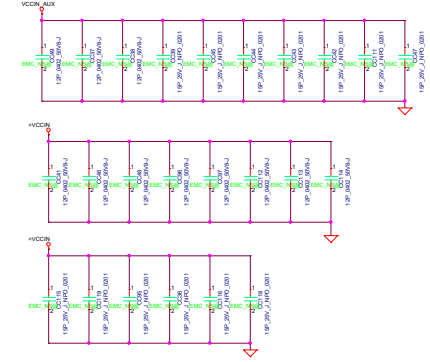
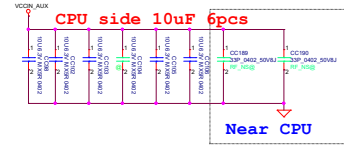
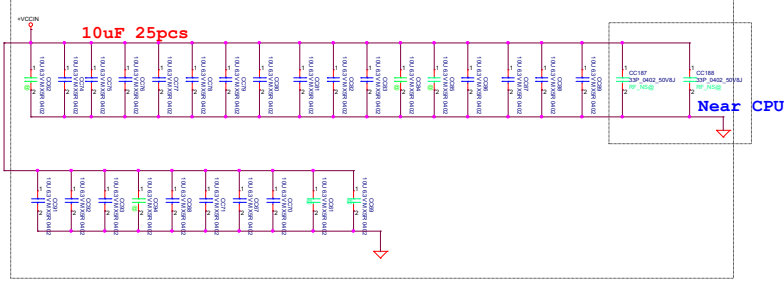


Security Classification		LC Future Center Secret Data		Title			
Issued Date		Deciphered Date		PWR_CPU PWR1			
2010/08/02		2010/08/02		Base Count			
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF LC FUTURE CENTER, AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSMITTED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY THE LC FUTURE CENTER IN WRITING. THIS SHEET MAY NOT BE REPRODUCED, COPIED, OR MAY BE USED BY OR FOR ANY OTHER PARTY WITHOUT PRIOR WRITTEN CONSENT OF LC FUTURE CENTER.				Document Number			
				GY530			

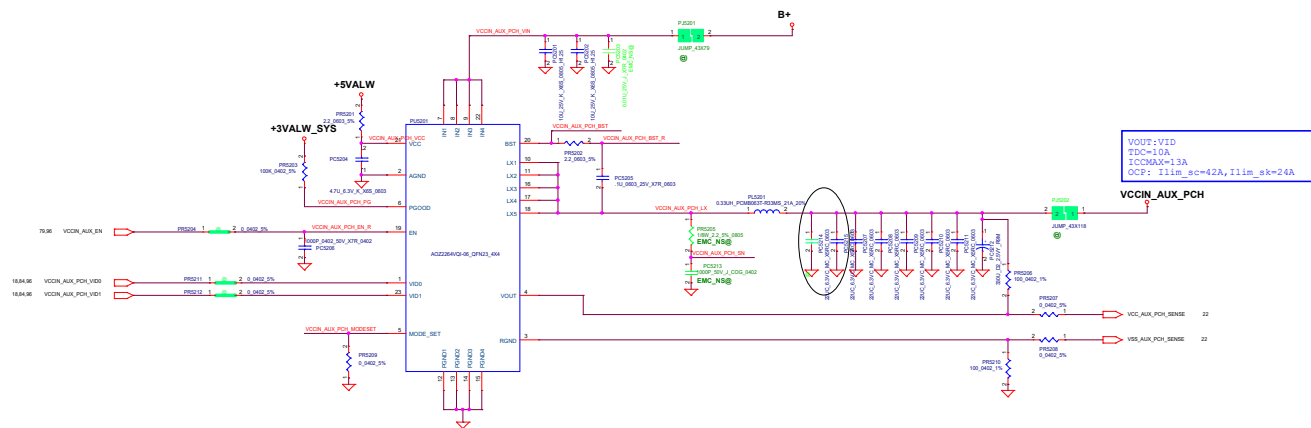
$V_{out}=1.8V\pm5\%$
 $V_{set}=1.8V\pm2.3\%$
 $V_{ref}=0.6V(+/-1\%)$
 $TDC=8A$
 $OCP=16A$
 $OVP=(1.15-1.25)*V_{out}$
 $UVP=(0.6-0.7)*V_{out}$
 $F_{sw}=500Khz$ min=425K max=575K



Security Classification	LC Future Center Sec 2 Data	Title
Issued Date	2018/08/02	2018/08/02
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY INFORMATION OF LC FUTURE CENTER AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSMITTED TO ANY OTHER PERSON OR ENTITY WITHOUT THE WRITTEN PERMISSION OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY LC FUTURE CENTER. THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT THE PERMISSION OF LC FUTURE CENTER.		PWR_CPU PWR2 Y560 AMD Date: Wednesday, April 07, 2021 Sheet 97 of 110



Security Classification	LC Future Center Secret Data		Title
Issued Date	2013/08/15	Deciphered Date	2013/08/15
THIS DOCUMENT IS UNCLASSIFIED AND THE INFORMATION CONTAINED HEREIN IS UNCLASSIFIED EXCEPT AS INDICATED BY LC FUTURE CENTER. THE INFORMATION CONTAINED HEREIN IS UNCLASSIFIED EXCEPT AS INDICATED BY LC FUTURE CENTER. THE INFORMATION CONTAINED HEREIN IS UNCLASSIFIED EXCEPT AS INDICATED BY LC FUTURE CENTER.			Doc # Document Number y560
MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF LC FUTURE CENTER.			Date 10/10/2013 Rev 1.0



VOUT:VID
TDC=10A
ICCMAX=13A
OCF: Ilim_sc=42A, Ilim_sk=24A

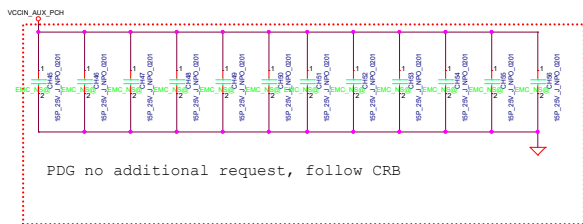
VOUT Setting	VID0	VID1
1.8V	H	H
1.65V	L	H
1.1V	H	L
0V	L	L

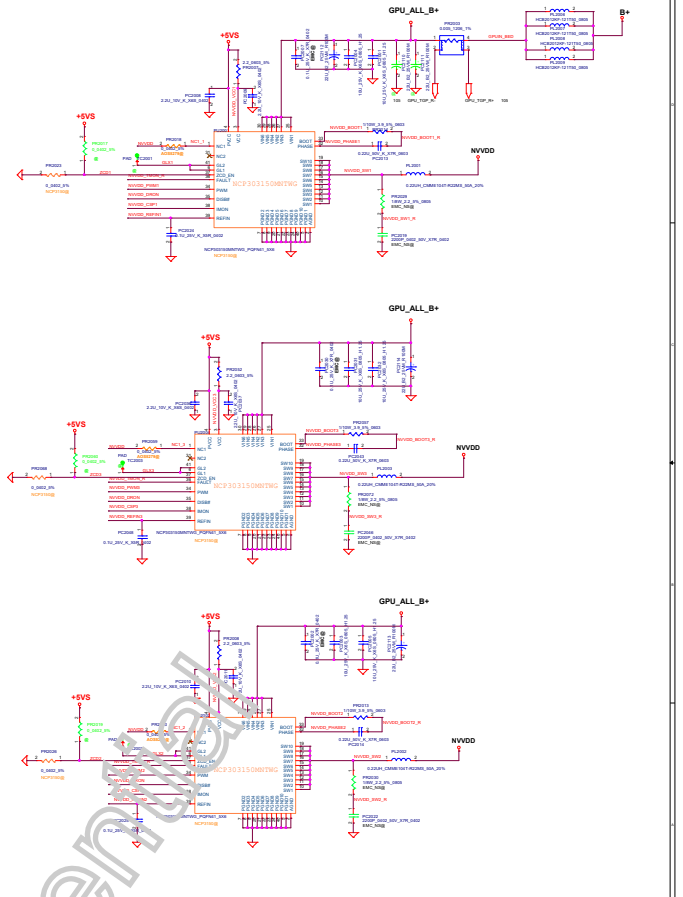
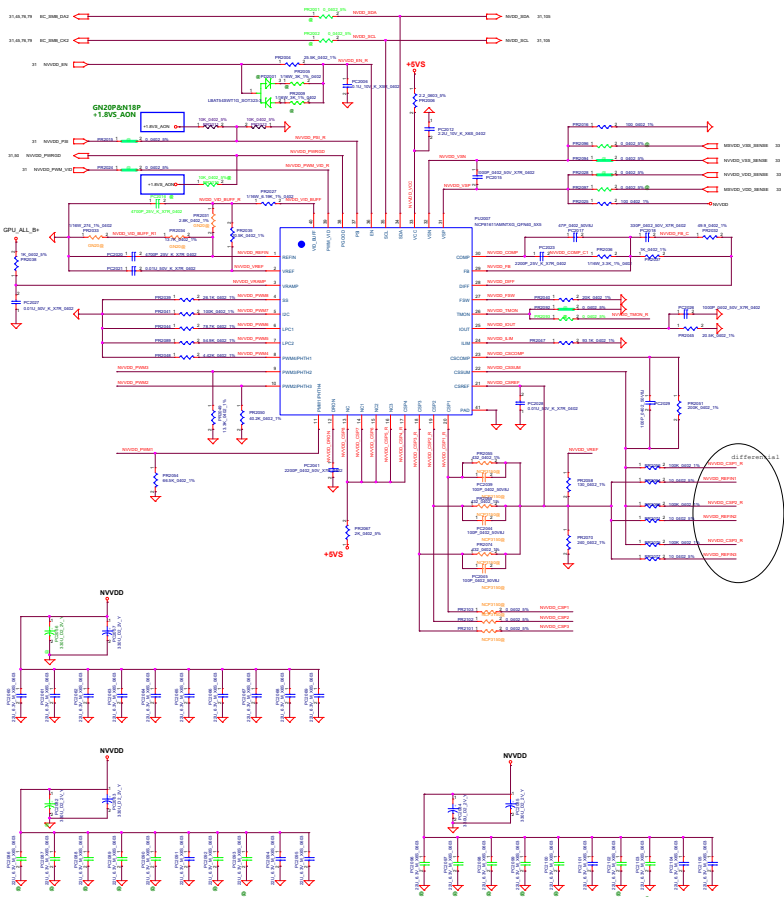
LCFC Confidential

LCFC Confidential

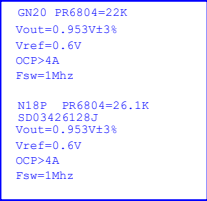
Security Classification		LC Future Center Secret Data		Title	
Declassified Date	2018/08/02	Declassified Date	2018/08/02	PCH PWR2	
<small>THIS IS A COPY OF AN ENGINEERING DRAWING. IT IS THE PROPRIETARY PROPERTY OF LC FUTURE CENTER, AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D. NO PART OF THIS SHEET MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PRIOR WRITTEN PERMISSION OF LC FUTURE CENTER.</small>				Rev	0.4
				Document Number	
				Y560	
Date				Wednesday, April 01, 2020	Sheet 105 of 110





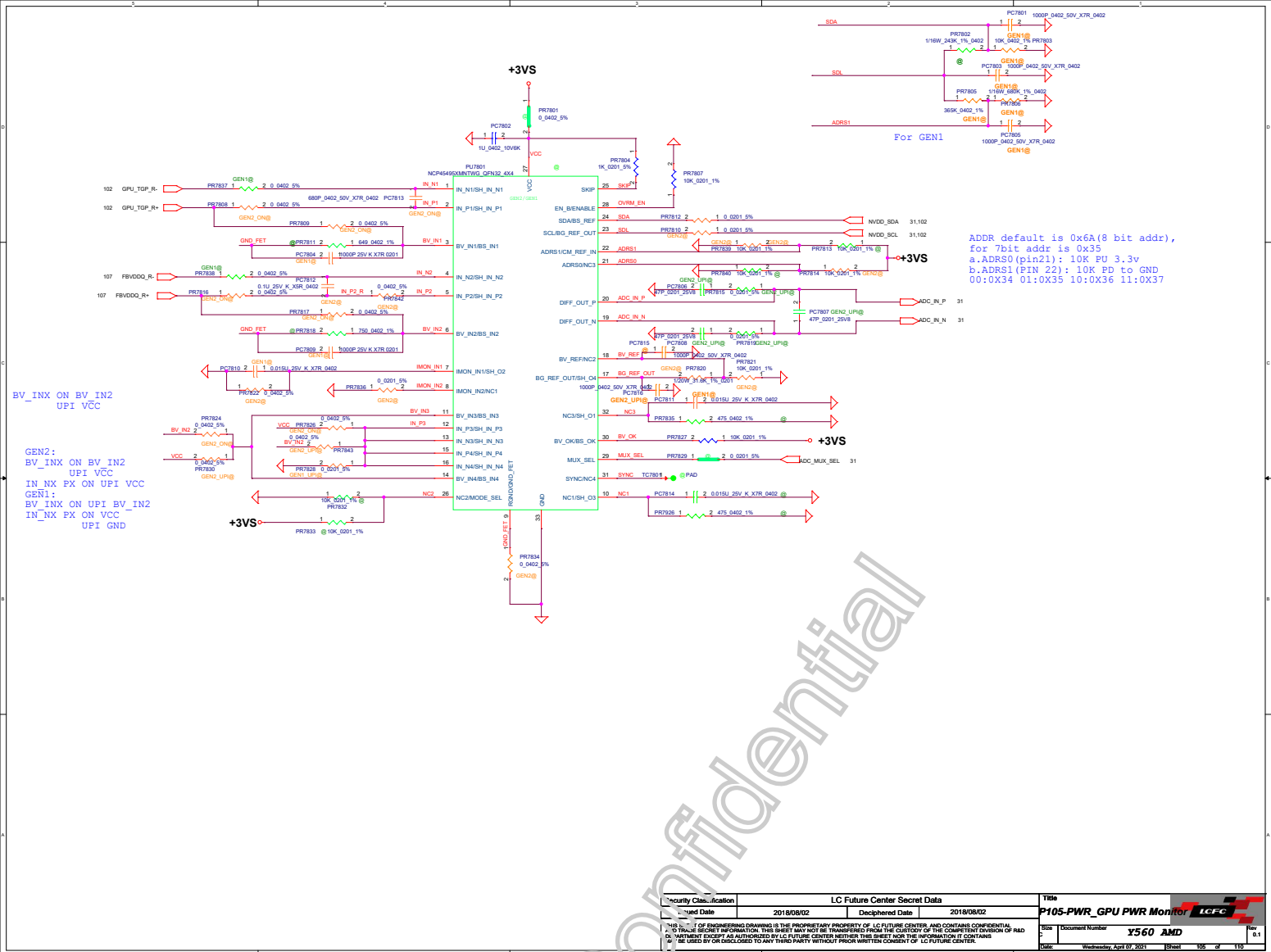


Security Classification	LC Future Center Secret Data	Pwr-NVDD
Secret Date	20180802	Classified Date
20180802	20180802	20180802
This document contains information that is classified as "Secret" under the National Security Agency's (NSA) classification system. It is intended for use by personnel who have been granted access to this information. It is not to be released to the public or other personnel who do not have a valid "need-to-know" without prior approval of the NSA.		Pwr-NVDD 3550



LCFC Confidential

Security Classification		LC Future Center Secret Data		Title	
Declassify Date	2018/08/02	Deciphered Date	2018/08/02	PWR_GPU PWR2	
<small>THIS IS A SET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF LC FUTURE CENTER, AND CONTAINS CONFIDENTIAL OR TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF RAND CORPORATION EXCEPT AS AUTHORIZED BY LC FUTURE CENTER. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF LC FUTURE CENTER.</small>				Rev	0.1
				Account Number	
				Y560 AMD	
Date				Wednesday, April 10, 2021	18:56



LCFC Confidential

Security Classification		LC Future Center Secret Data		Title	
Declassified Date	2018/08/02	Deciphered Date	2018/08/02	GPU PWR Decoupling	
<p>THIS DRAWING OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF LC FUTURE CENTER, AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY LC FUTURE CENTER. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF LC FUTURE CENTER.</p>				Size	Document Number
					Y560
					Rev 0.1
Date				Wednesday, April 01, 2021	Sheet 08 of 10

LCFC Confidential

Security Classification		LC Future Center Secret Data		Title	
Declassified Date	2018/08/02	Deciphered Date	2018/08/02	PWR_Memory PWR Decoupling	
<p>THIS DRAWING OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF LC FUTURE CENTER, AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY LC FUTURE CENTER. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF LC FUTURE CENTER.</p>				Rev	0.1
				Document Number	
				Y560 AMD	
Date				Wednesday, April 27, 2023	Sheet 08 of 10



LCFC Confidential

Security Classification		LC Future Center Secret Data		Title	
Declassified Date	2018/08/02	Declassified Date	2018/08/02	Change List_EE	
<p>THIS IS A DRAFT OF AN ENGINEERING DRAWING. IT IS THE PROPRIETARY PROPERTY OF LC FUTURE CENTER, AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D. NO PART OF THIS DRAWING IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE PRIOR WRITTEN CONSENT OF LC FUTURE CENTER.</p>				Rev	0.1
				Document Number	
				Y560 AMD	
Date				Wednesday, April 27, 2023	Sheet 109 of 110

LCFC Confidential

Security Classification		LC Future Center Secret Data		Title	
Declassify Date	2018/08/02	Deciphered Date	2018/08/02	Change Lise_PWR	
<small>1. THIS IS AN ENGINEERING DRAWING AND IS THE PROPRIETARY PROPERTY OF LC FUTURE CENTER AND CONTAINS CONFIDENTIAL AND SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSMITTED FROM THE CUSTODY OF THE COMPTON DIVISION OF R&D WITHOUT WRITTEN PERMISSION FROM THE COMPTON DIVISION OF R&D. 2. NO PART OF THIS SHEET MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM THE COMPTON DIVISION OF R&D.</small>				Size	Document Number
				C	Y560 AMD
Date				Wednesday, April 07, 2010	Sheet 110 of 110



Rev 0.1