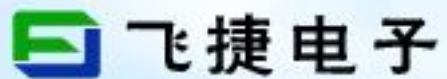




飞兆快捷(仙童)半导体选用指南



Flypowers +86 755 8825 7825



公司介绍

飞捷公司概况

飞捷电子是仙童(飞兆 快捷)最专业的全线代理商, 主要致力于仙童全线电子元件的推广, 产品广泛应用于数字电视,汽车电子,电脑及周边产品,通讯设备等各个行业。主要经营IGBT模块, 整流二极管模块, IGBT单管, SPM模块, 场效应管, 快恢复二极管, 肖特基二极管, 智能电源开关管, IC等全线无铅产品.作为仙童半导体(Fairchild Semiconductor)世界领先半导体集成电路的专业代理商, 飞捷电子有限公司一直为广大客户提供半导体配套产品及前卫的解决方案。为客户提供从产品资料, 产品选型, 供应保障及物流服务等专业服务。

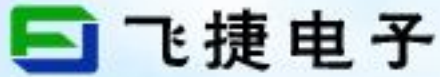
我们的承诺

一流的品质,一流服务,一流的价格.满足客户的要求!

所有出售产品均符合ROHS声明,达到环保要求,以保护环境为己任!

只销售全新原装现货,做有诚信的企业!

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企业文化

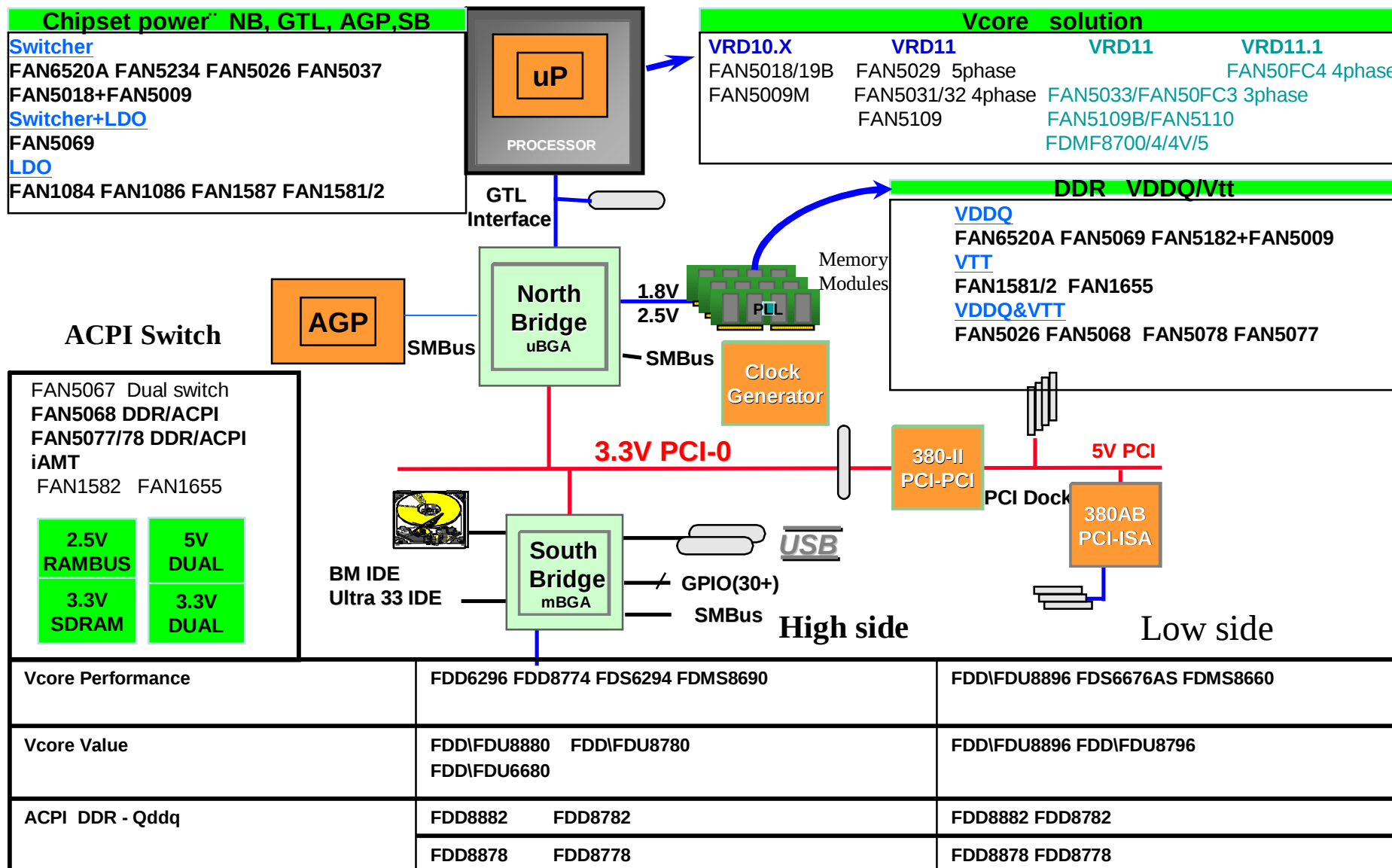
专业 分工 提供高效率服务的组织架构

在组织的规划上，飞捷首重专业与分工。配合各品牌的业务需求，我们采用独立运作团队的方式落实效率管理，专业的产品经理，业务精英及应用工程师，我们坚持用最高绩效的要求，提供客户最佳化的完美服务；为缩短客户产品上市时程，我们更成立了坚强的研发团队，以 **Total Solution** 的方式协同开发，共同创造产品的附加价值。「实时有效的服务」才是通路真价值，为了贯彻此一目标，我们不但广设据点仓库，就近服务客户，并成立高品质的信息及储运工作团队，结合无形的信息服务以及实体的运筹作业上，让客户感受最佳化的服务。不但如此，针对策略性客户的需求，飞捷更提供单一窗口，全员服务的效率运作，我们深信唯有不断的提升自我，才能在剧烈多变的竞争中出。

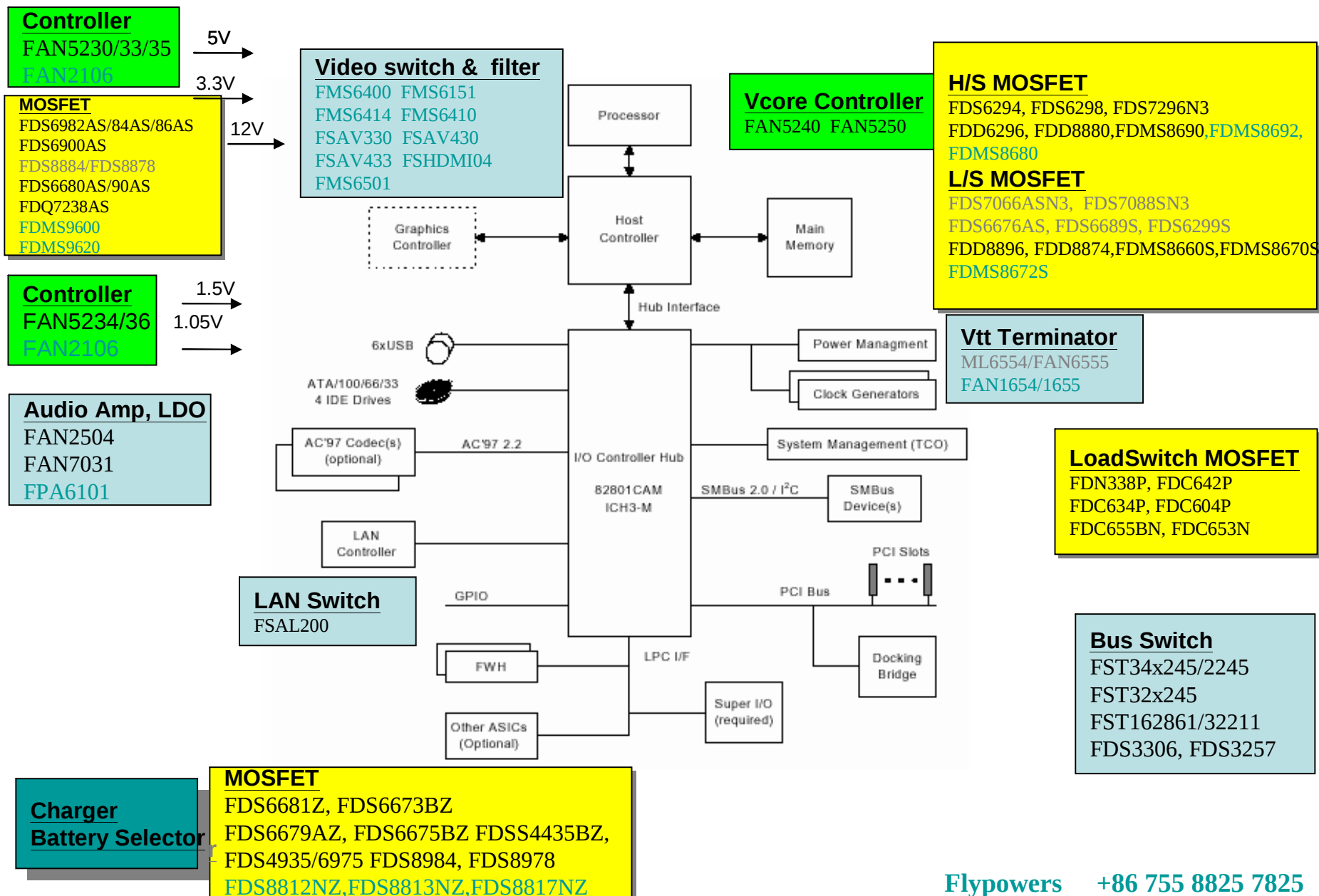
品牌精耕 为各品牌产品设计最适切的经营策略，确实精耕。异域专责 根据不同产品应用领域，提供具有专门经验之销售团队为客户提供最专业的务 单一窗口针对策略性客户，由营运管理中心设立专属部门，单一窗口，全员服务。精实后勤架构坚强信息及储运工作团队，提供一流运筹绩效。协同开发专业研发部门提供完整产品行销解决方案，缩短客户产品上市时程。

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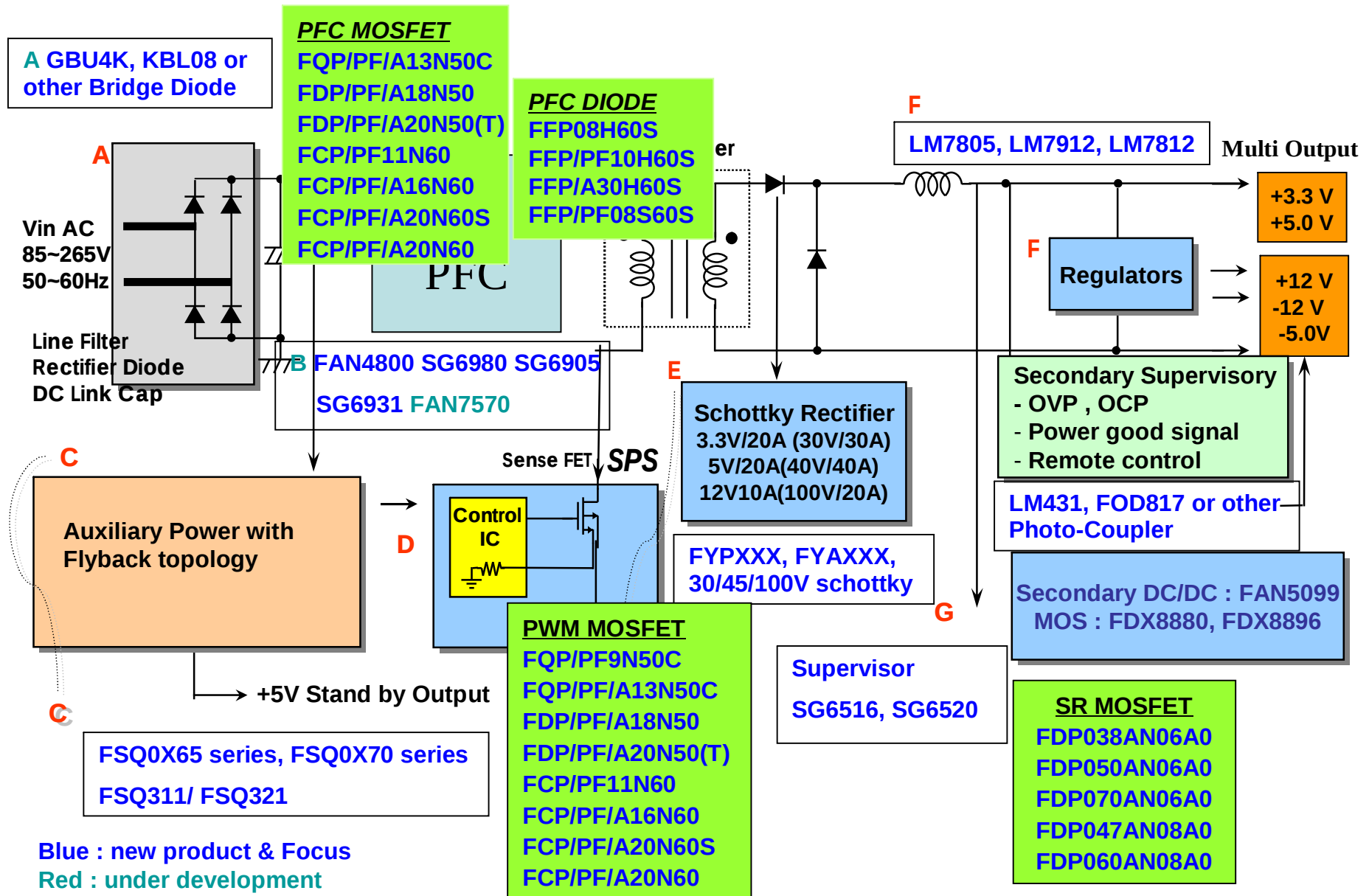
Motherboard



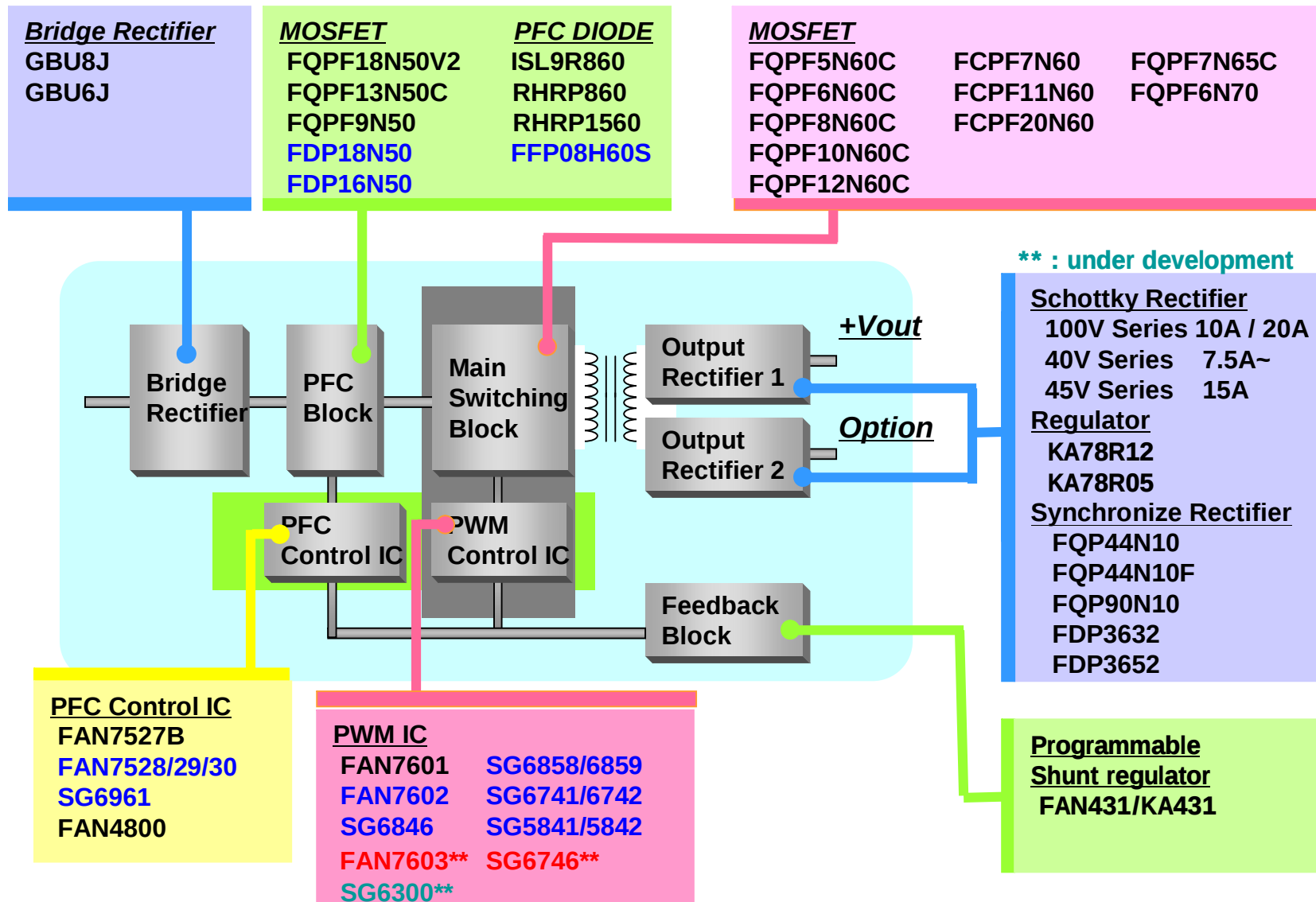
Notebook

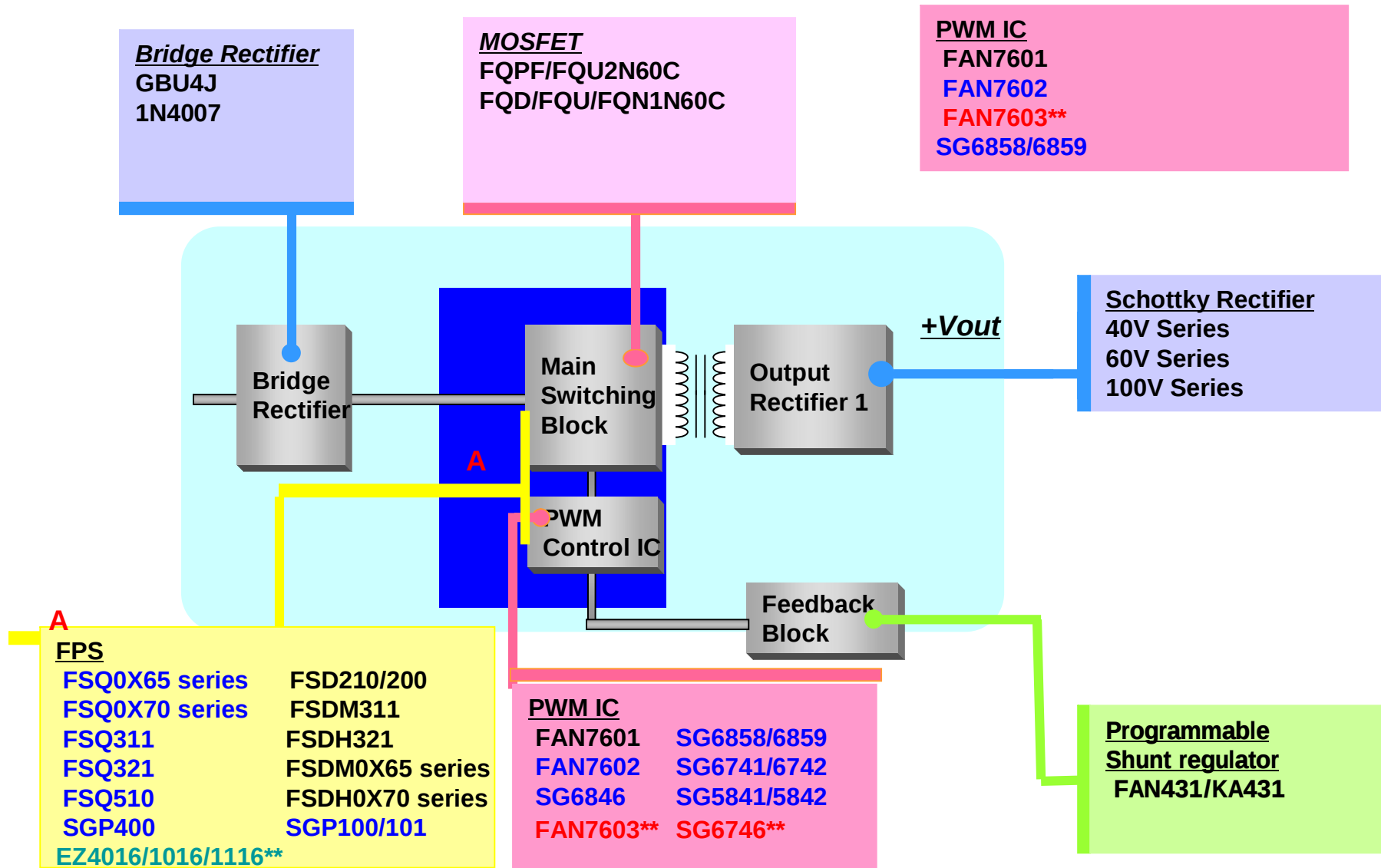


ATX / Server Power



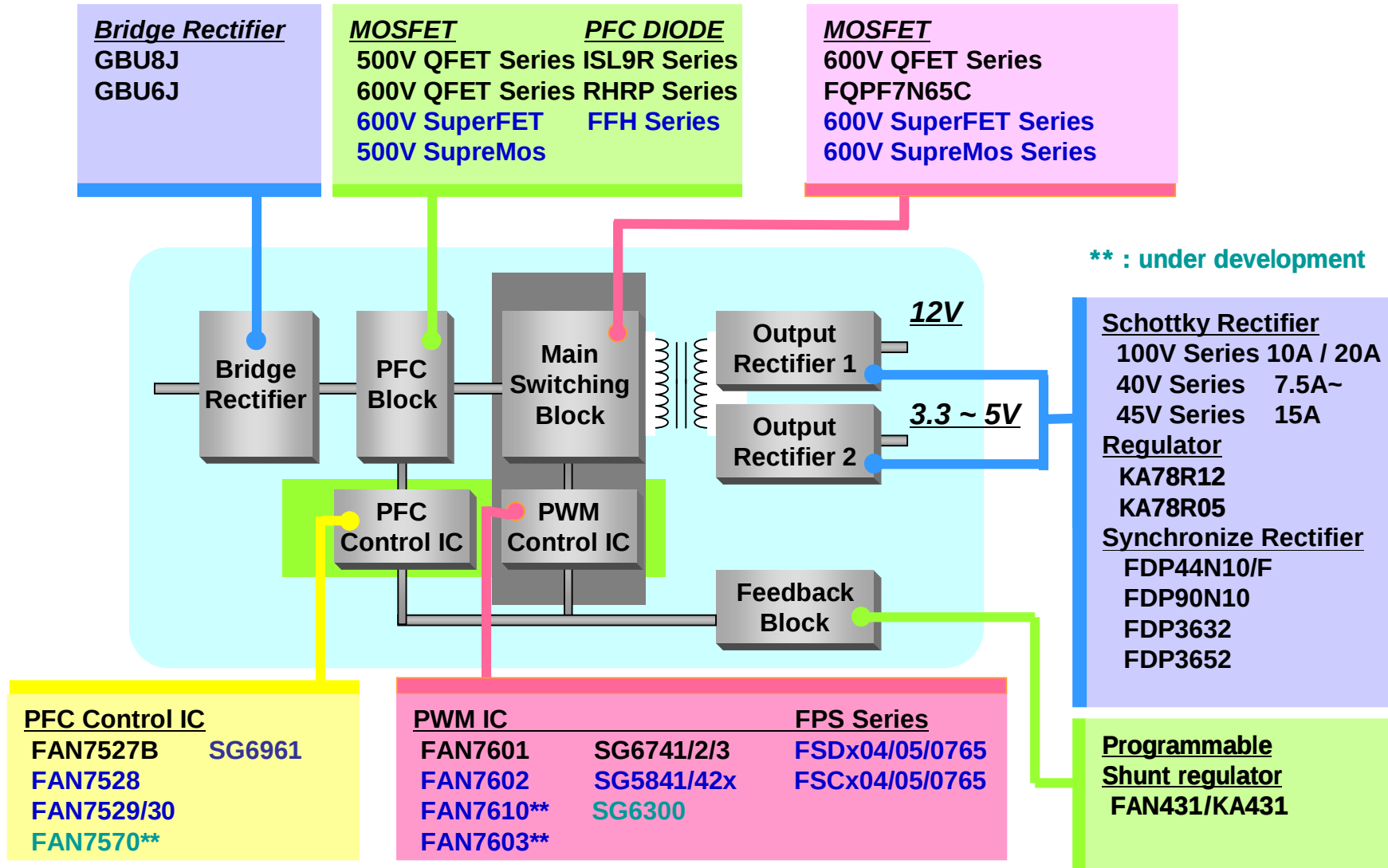
If input power exceed 75W





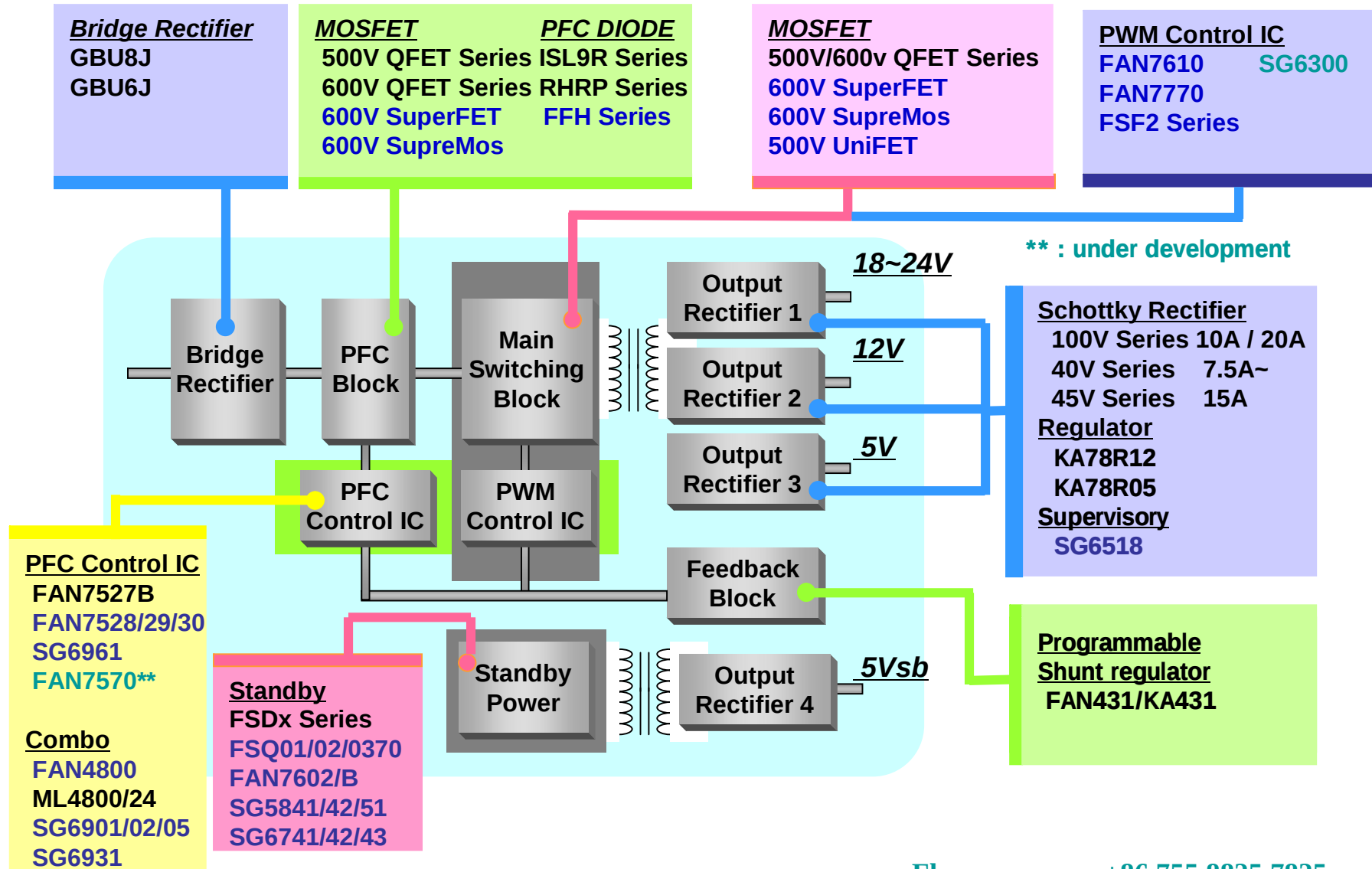
LCD-Monitor Power Block

If input power exceed 75W

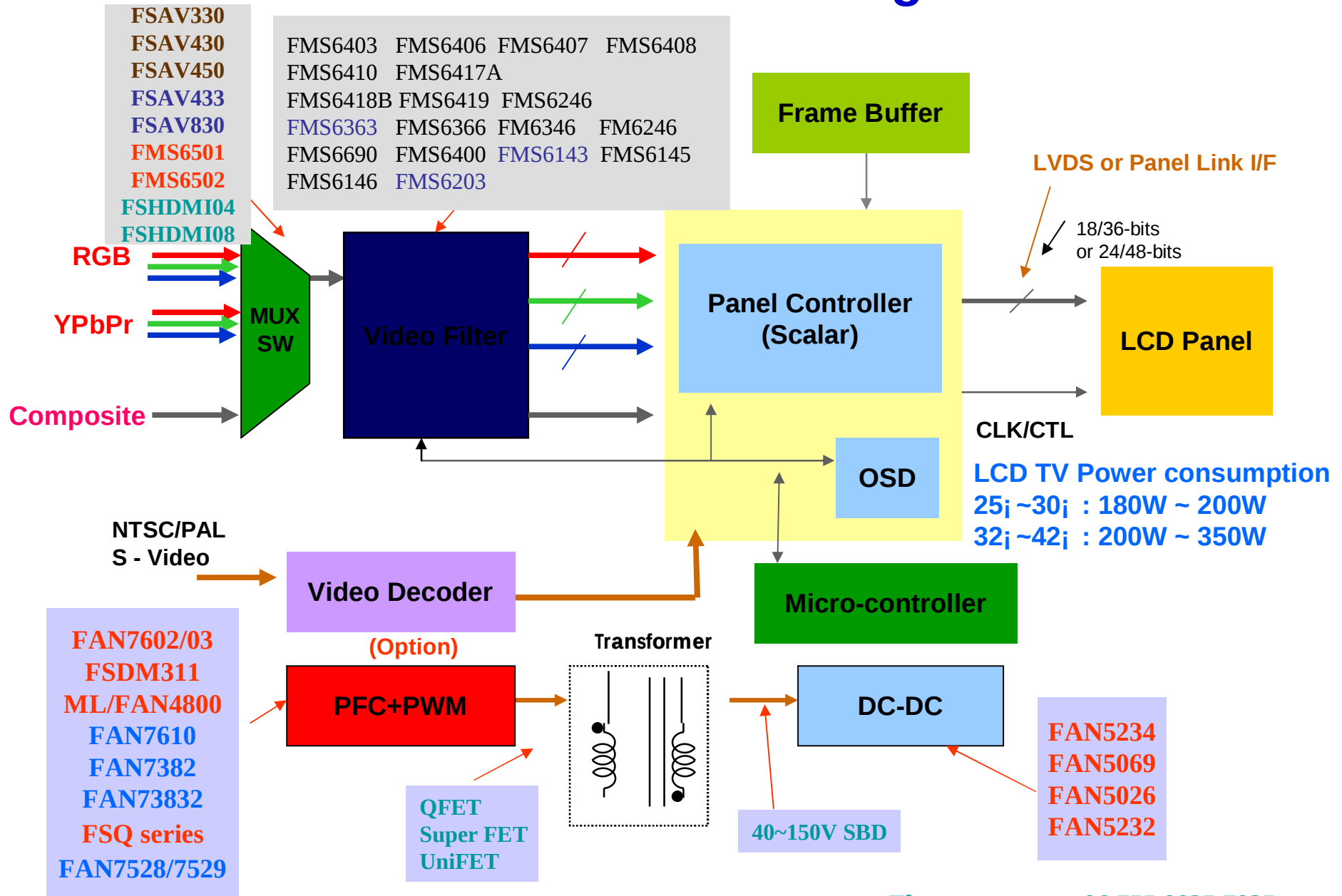


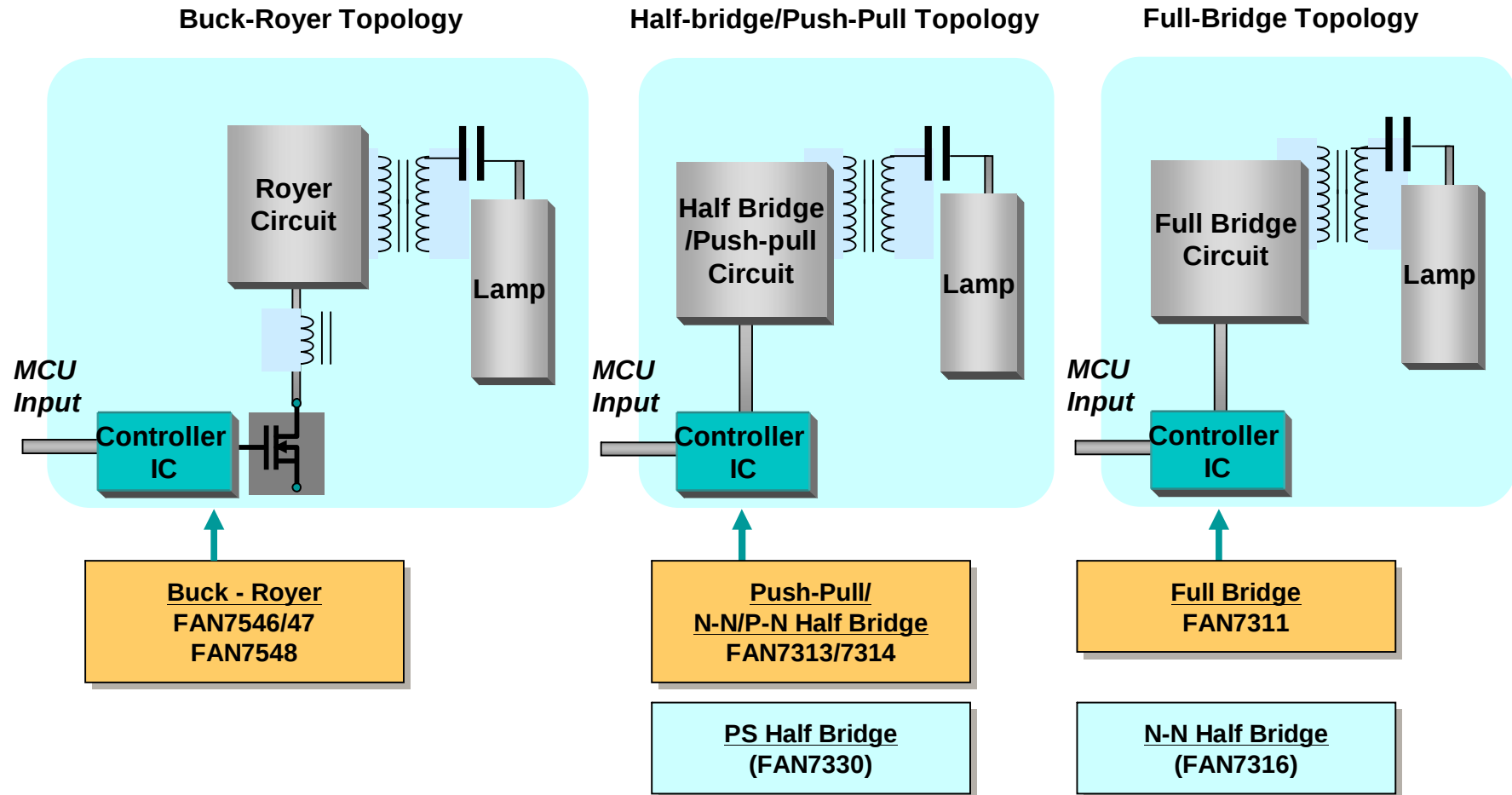
LCD-TV Power Block

If input power exceed 75W

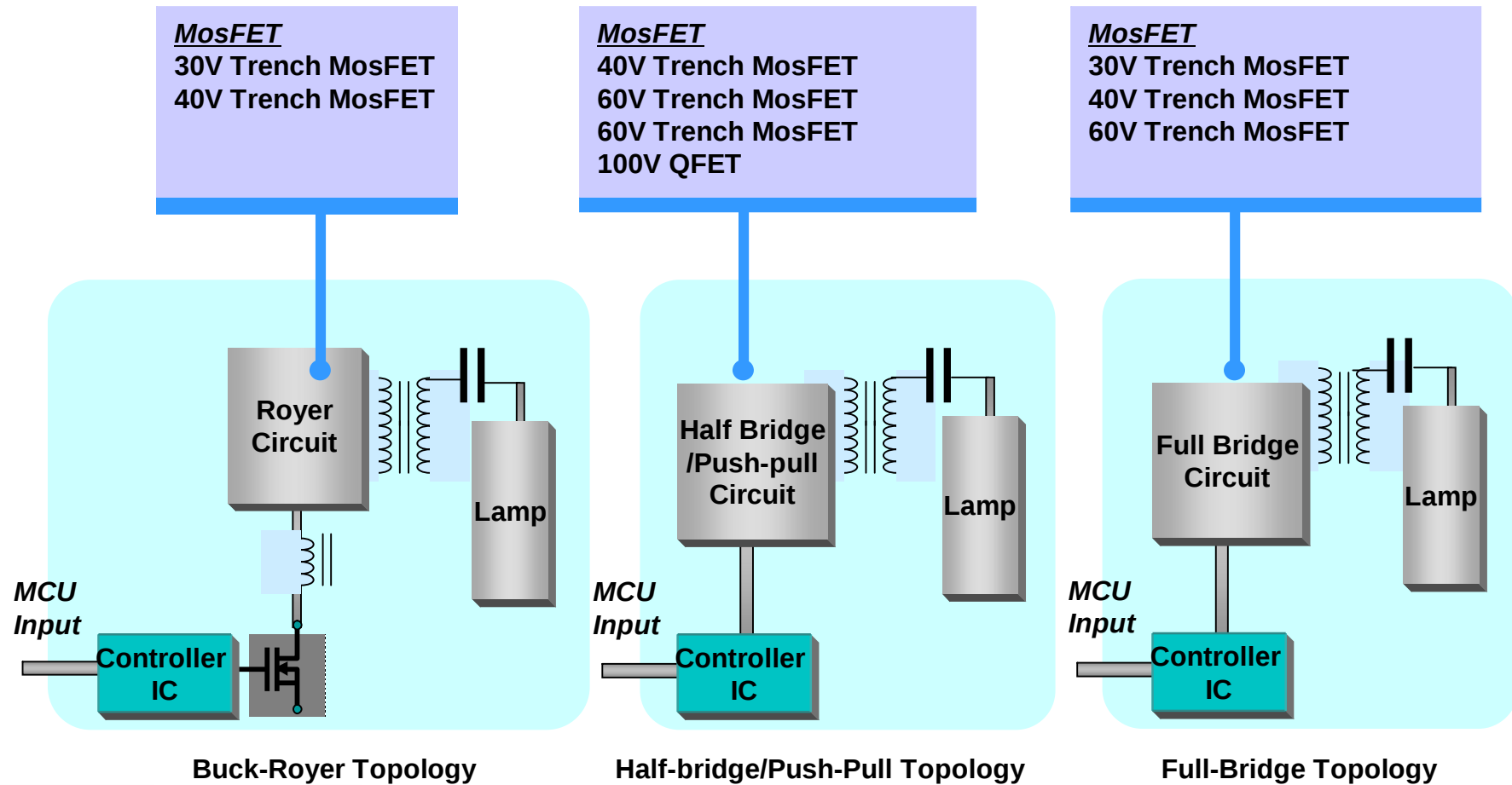


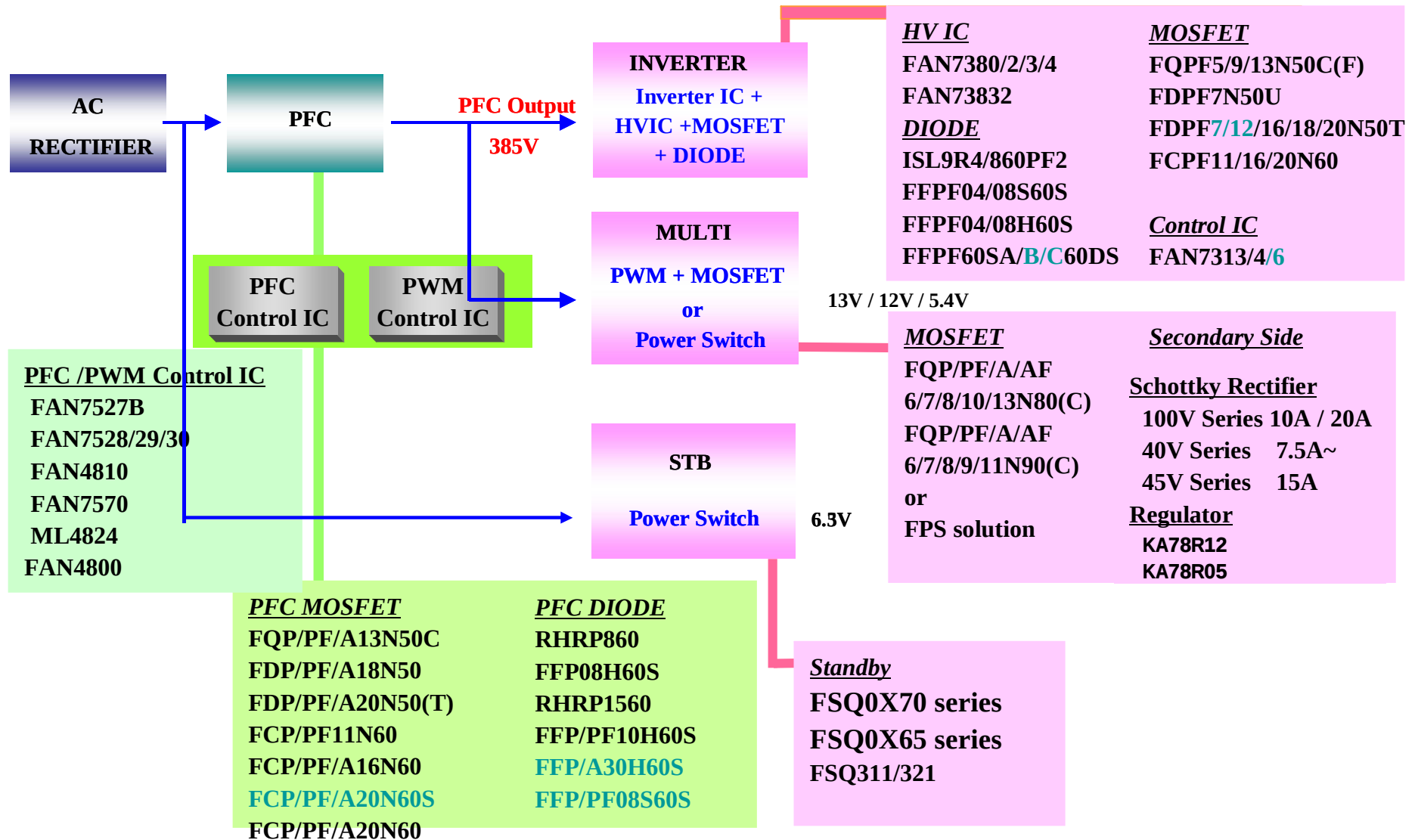
LCD TV Block Diagram





Backlight Inverter for TFT-LCD

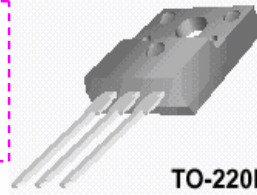




Red means developing

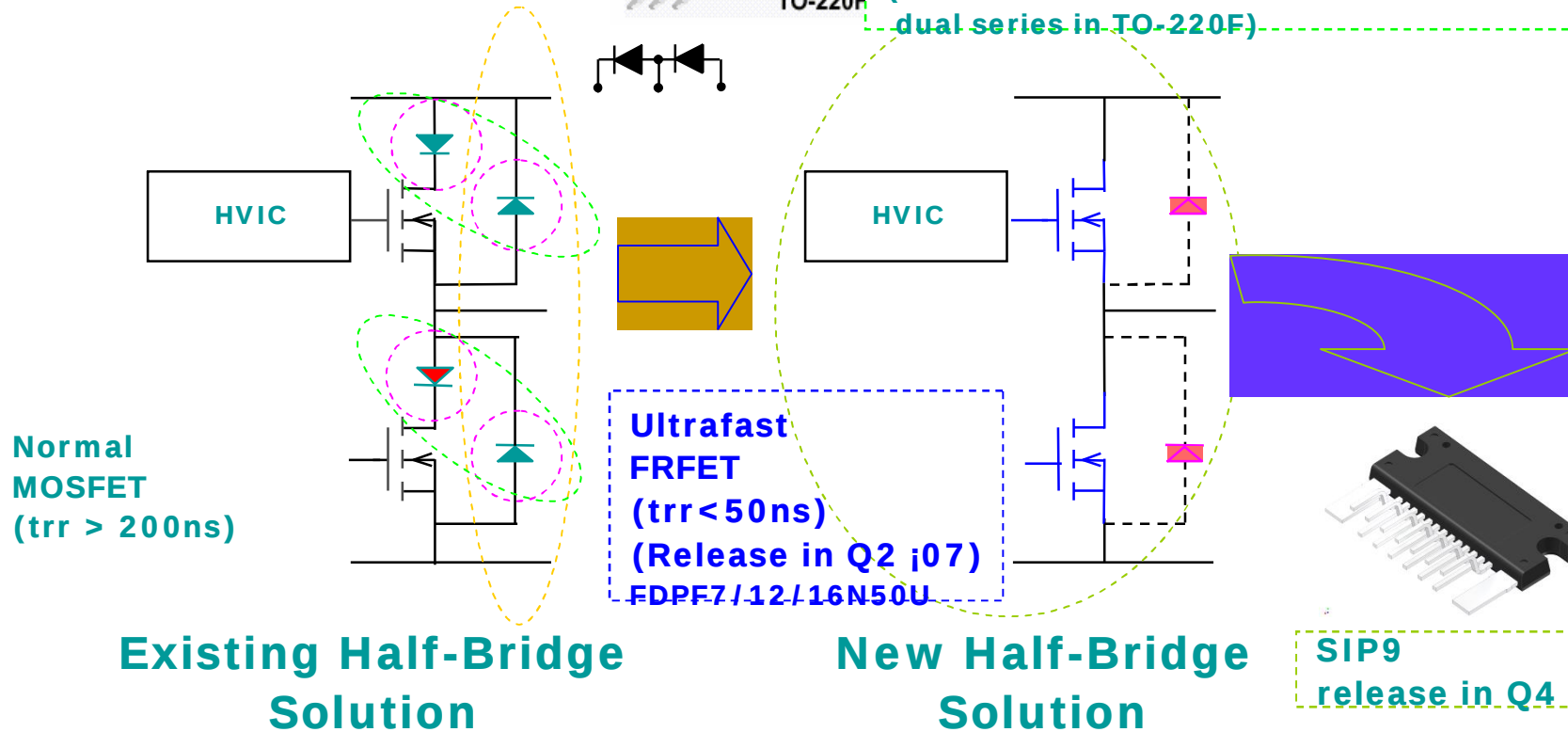


FFPF04H/S60S (release in Q2 i07)
FFPF08H/S60S (release in Q1 i07)
(600V 4A, 8A HYPERFAST2 & STEALTH2
single diode in TO-220F)



FFPF60SB60DS (release in Q3 i07)
(600V 4A*2 STEALTH2 dual series in TO-220F)

FFPF60SC60DS (release in Q3 i07)
(600V 4A STEALTH2H & ULTRAFAST diode
dual series in TO-220F)



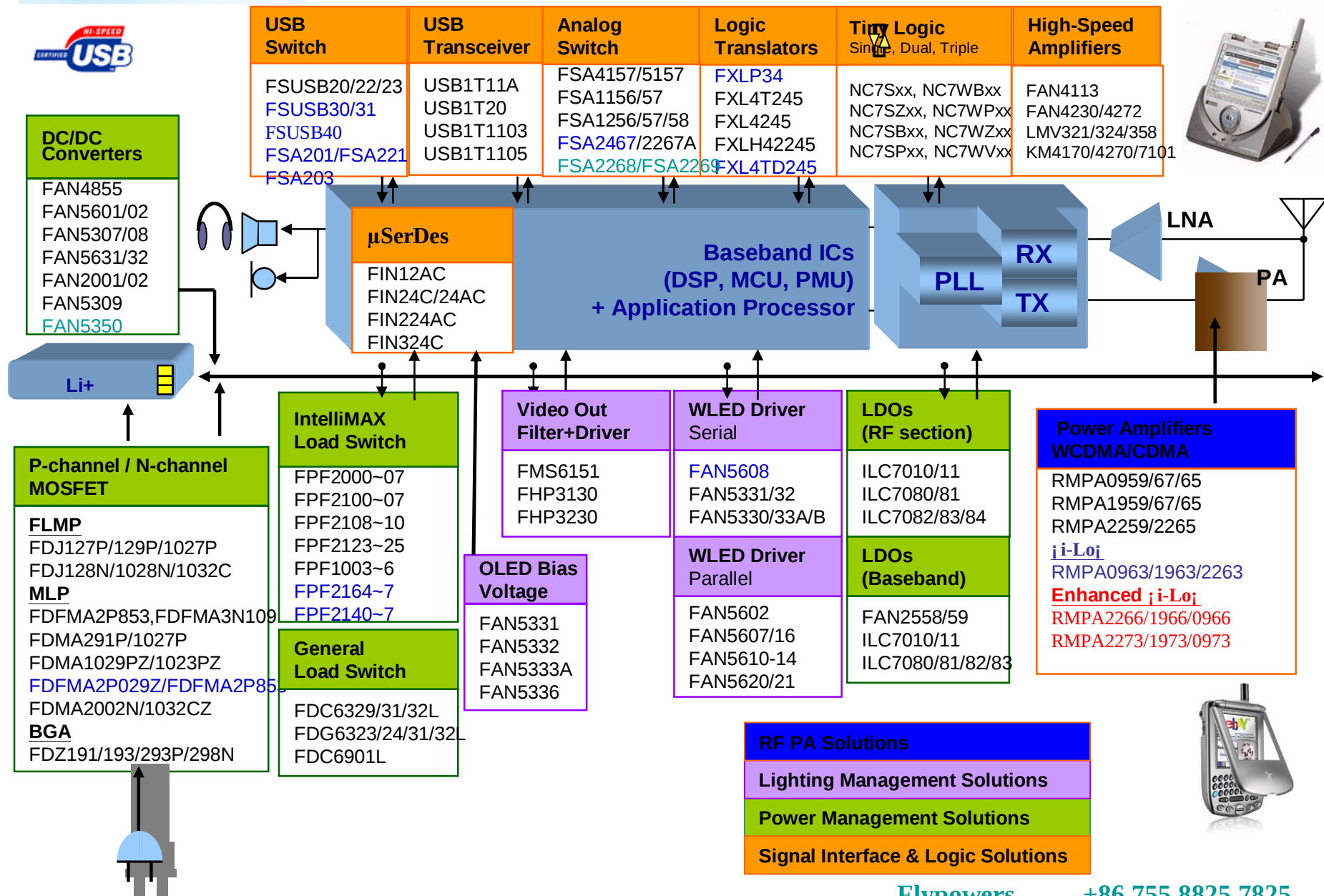
500V CFET, UniFET → 600V SupreMOS (under development)
600V CFET, SuperFET → 600V SupreMOS (under development)



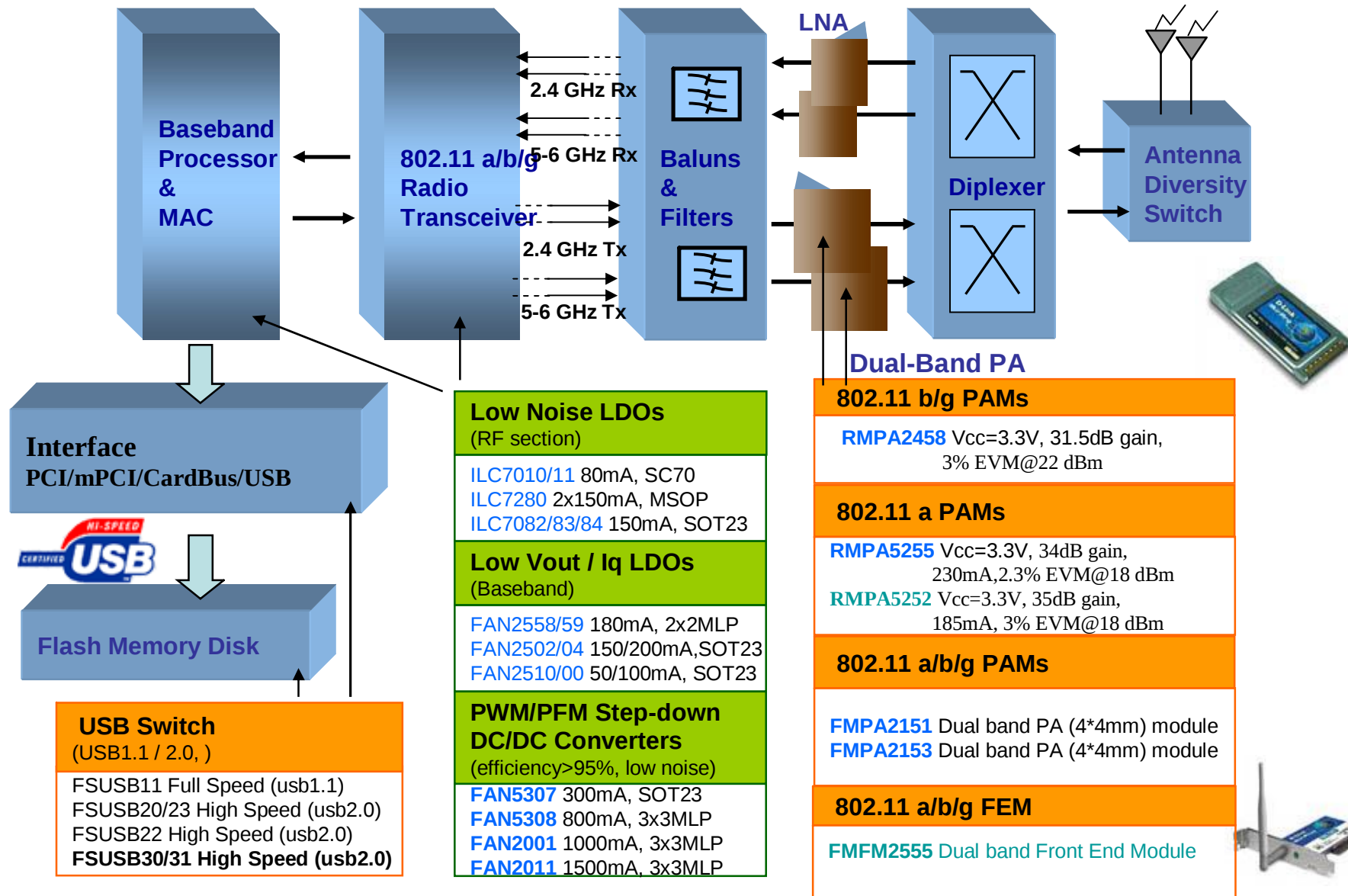
LCD TV (inch)	BLU					
	topology	MOSFET	blocking diode	FRD	HV IC	Control IC
32"	H/B	FQPF5N50C		FFPF60SB60DS*	FAN7382	FAN7313
		FQPF5N50CF	FFPF60SC60DS*		FAN7382	FAN7313
37" ~ 42"	H/B	FDPF7N50U	ISL9R460PF2	ISL9R460PF2	FAN7382	FAN7313
		FDPF7*/12*N50	FFPF04H60S*	FFPF04H60S*		
		FQPF9/13N50CF	FFPF04S60S*	FFPF04S60S*		
		FQPF9/13N50C		FFPF60SB60DS*		
		FQPF10/12N60C	FFPF60SC60DS*			
46" ~ 52"	H/B	FDPF13N50C(F)	ISL9R860PF2	ISL9R860PF2	FAN7382	FAN7313
		FDPF16/18N50	FFPF08H60S	FFPF08H60S		
		FDA18/20N50	FFPF08S60S	FFPF08S60S		
		FCPF/A11N60		FFPF60SA60DS		
		FCPF/A16N60				
		FCPF/A20N60				

? Main package in BLU : TO-220F & TO-3P

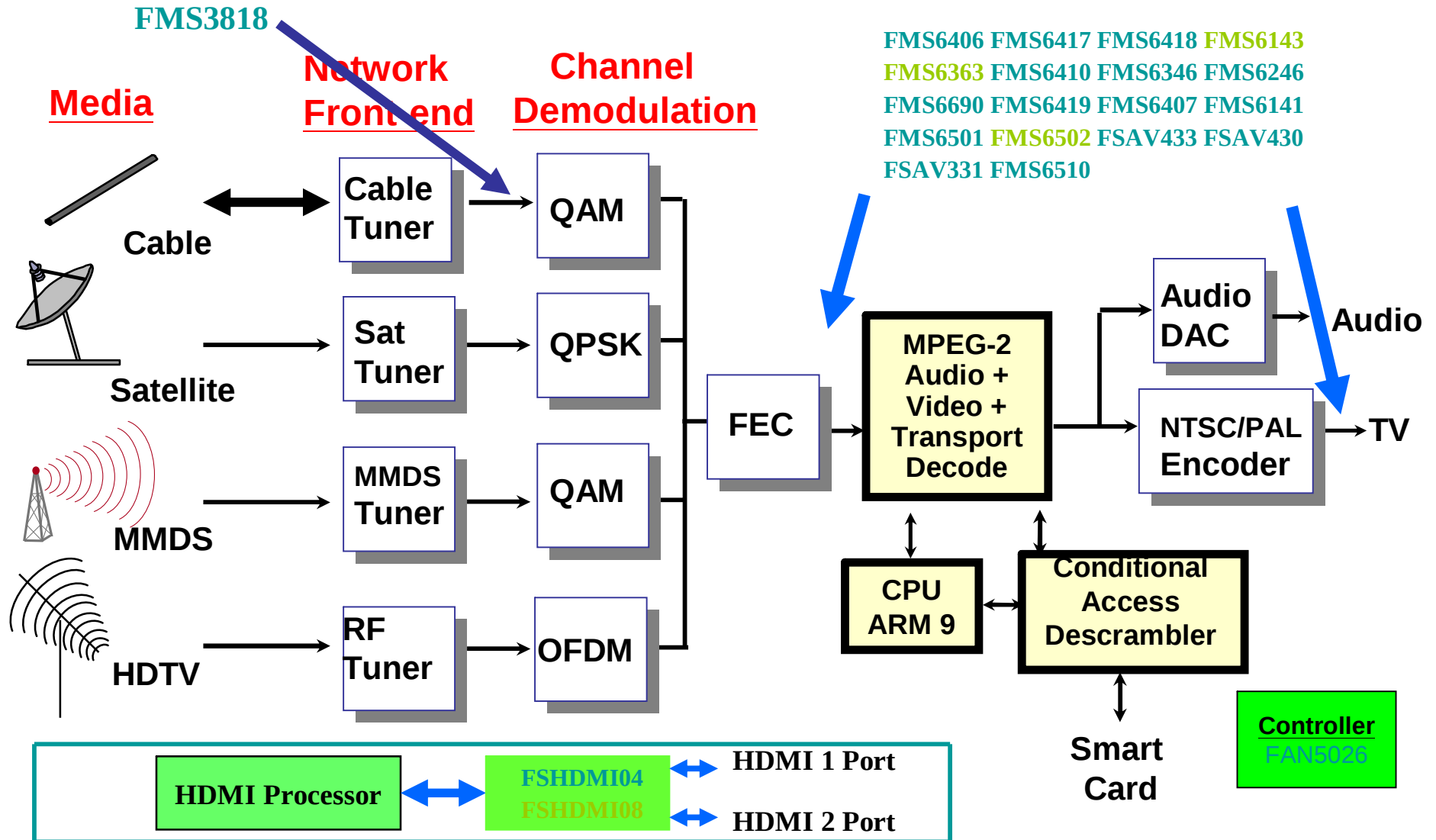
* : under development



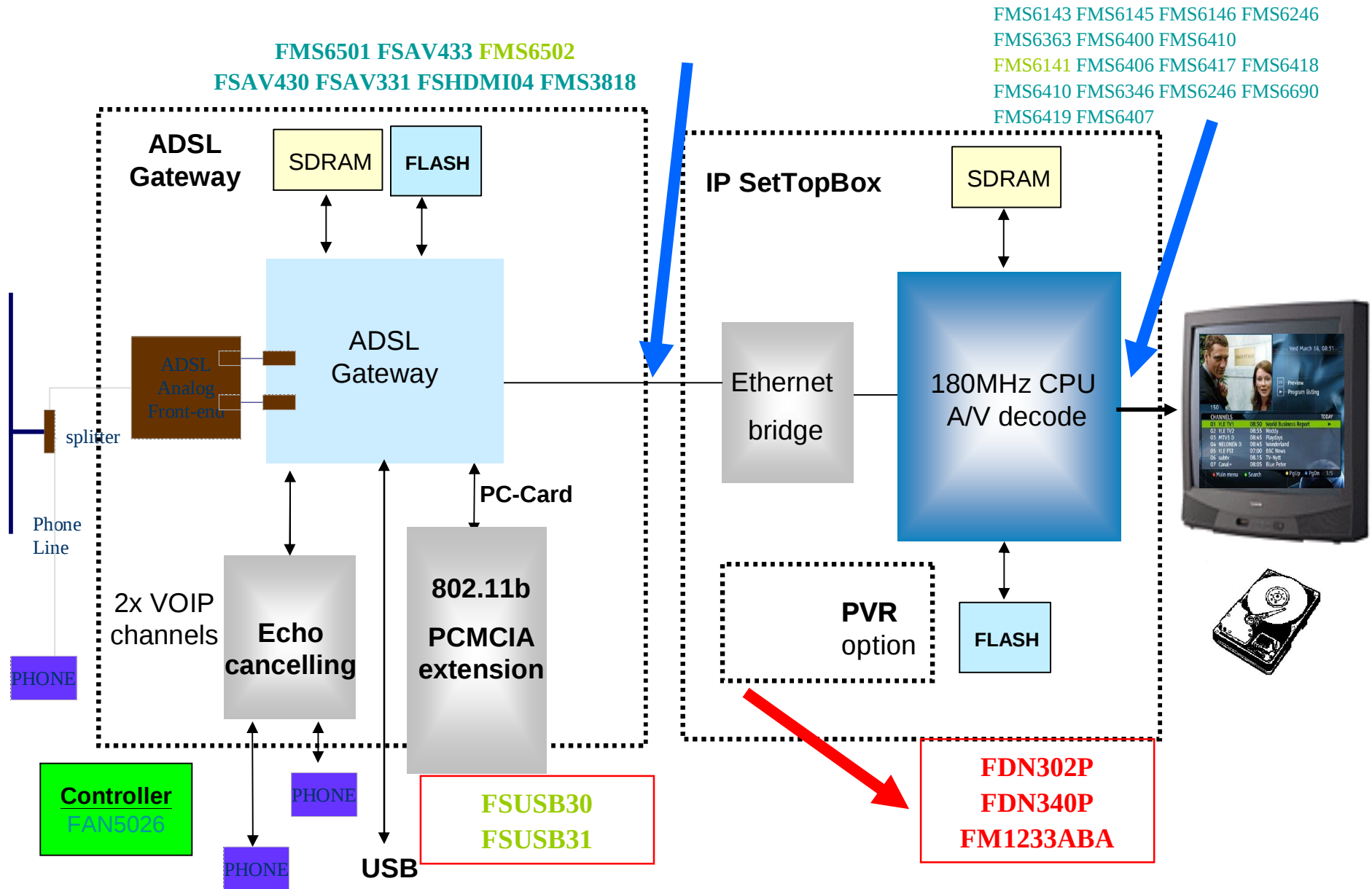
WLAN Card Solutions



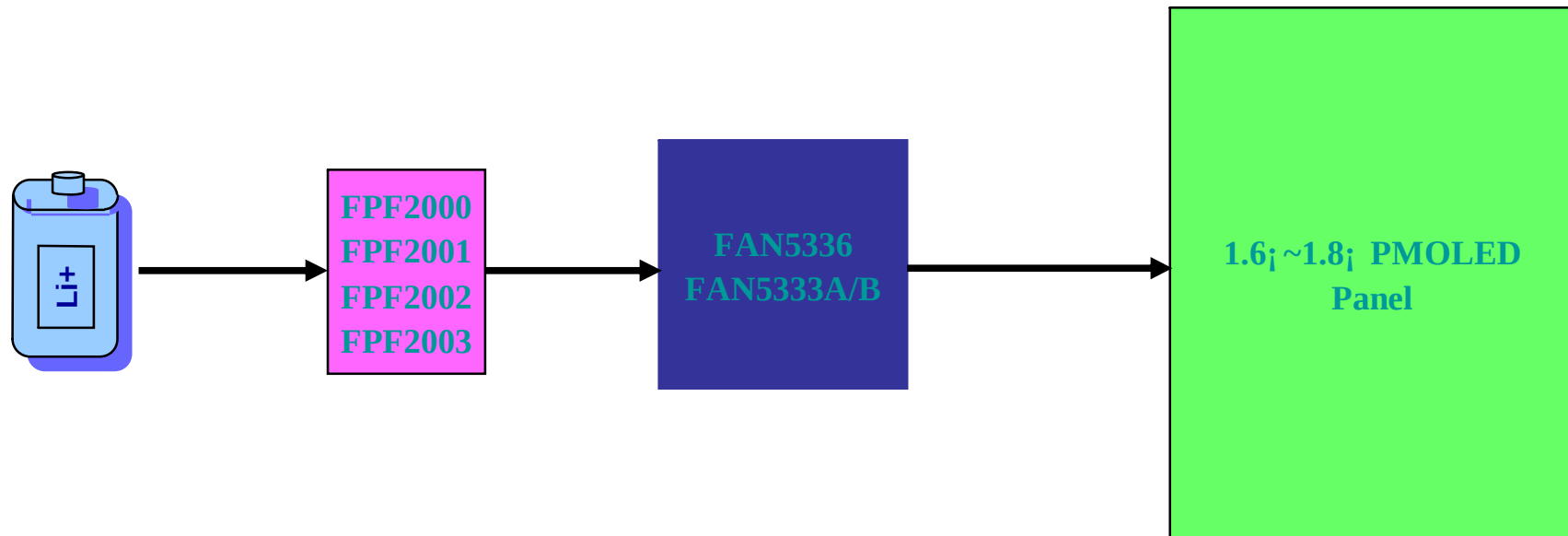
STB System



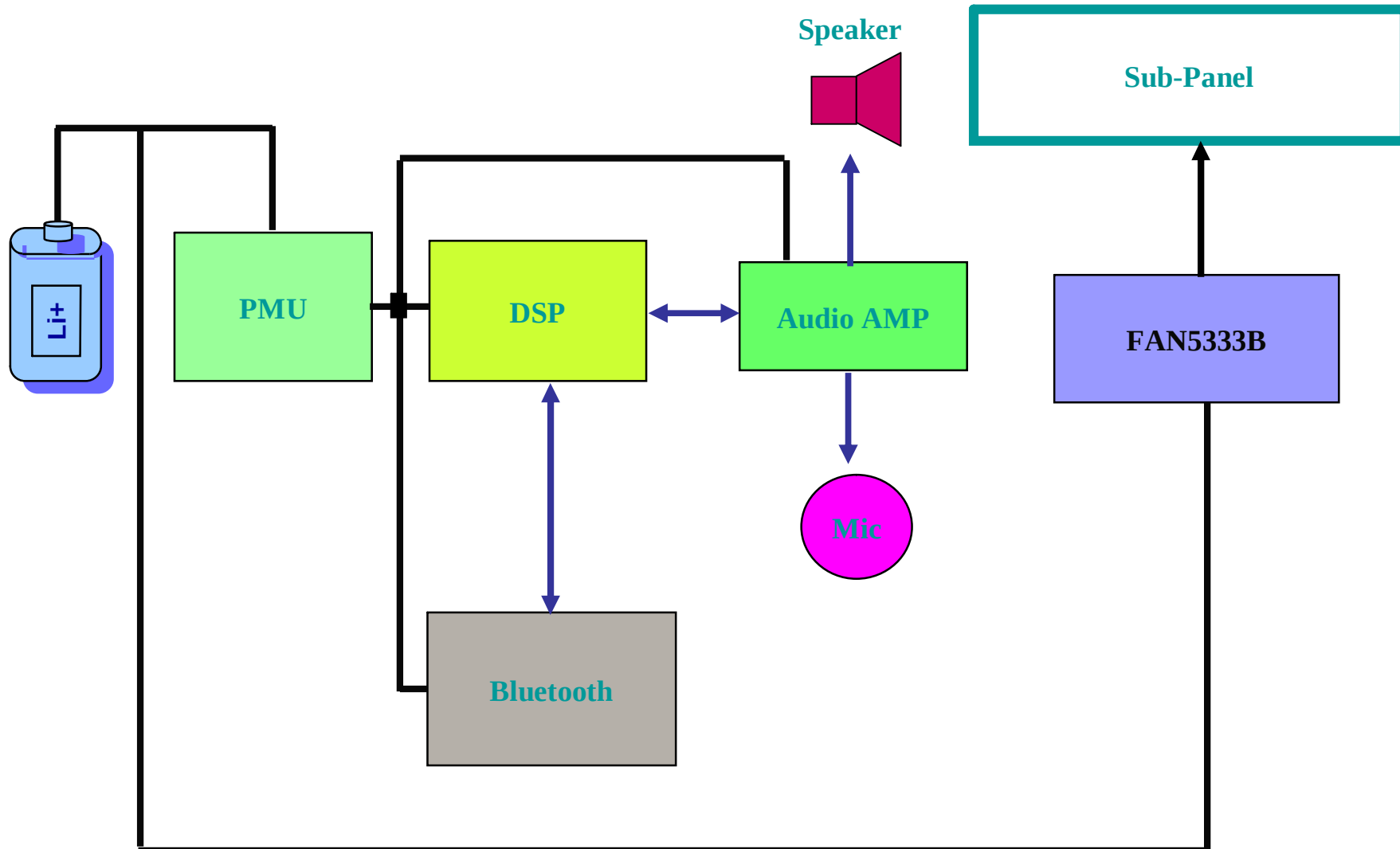
IP STB With VOIP And Wifi



FSC Solution for PMOLED

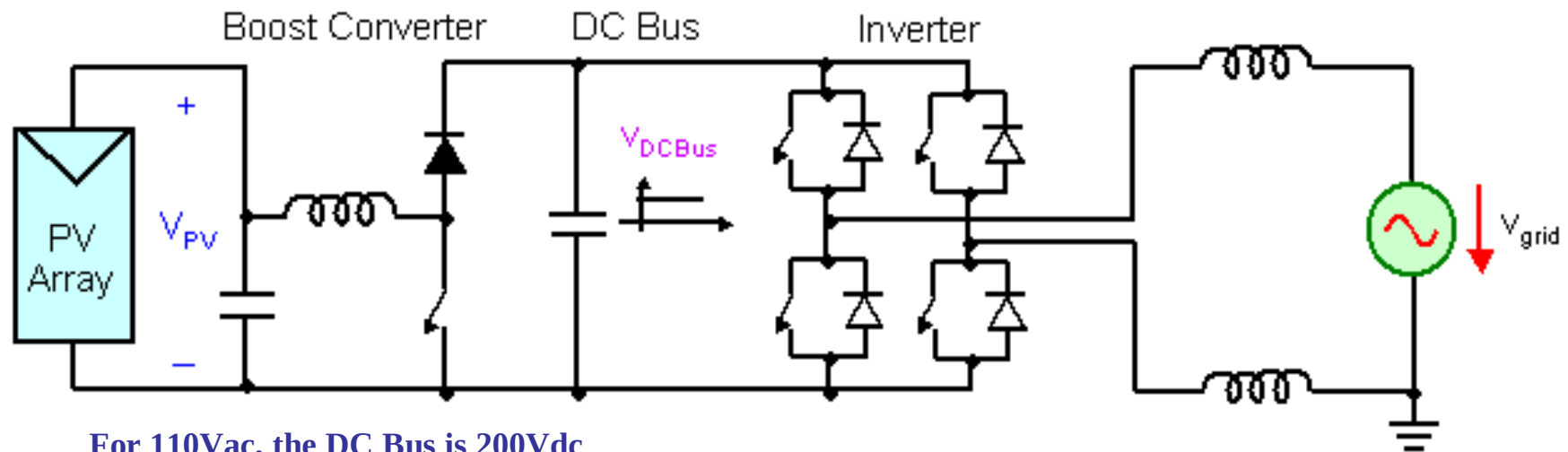


FSC Solution for Skype Phone



Solar Inverter

Transformer-less two-stage PV inverter

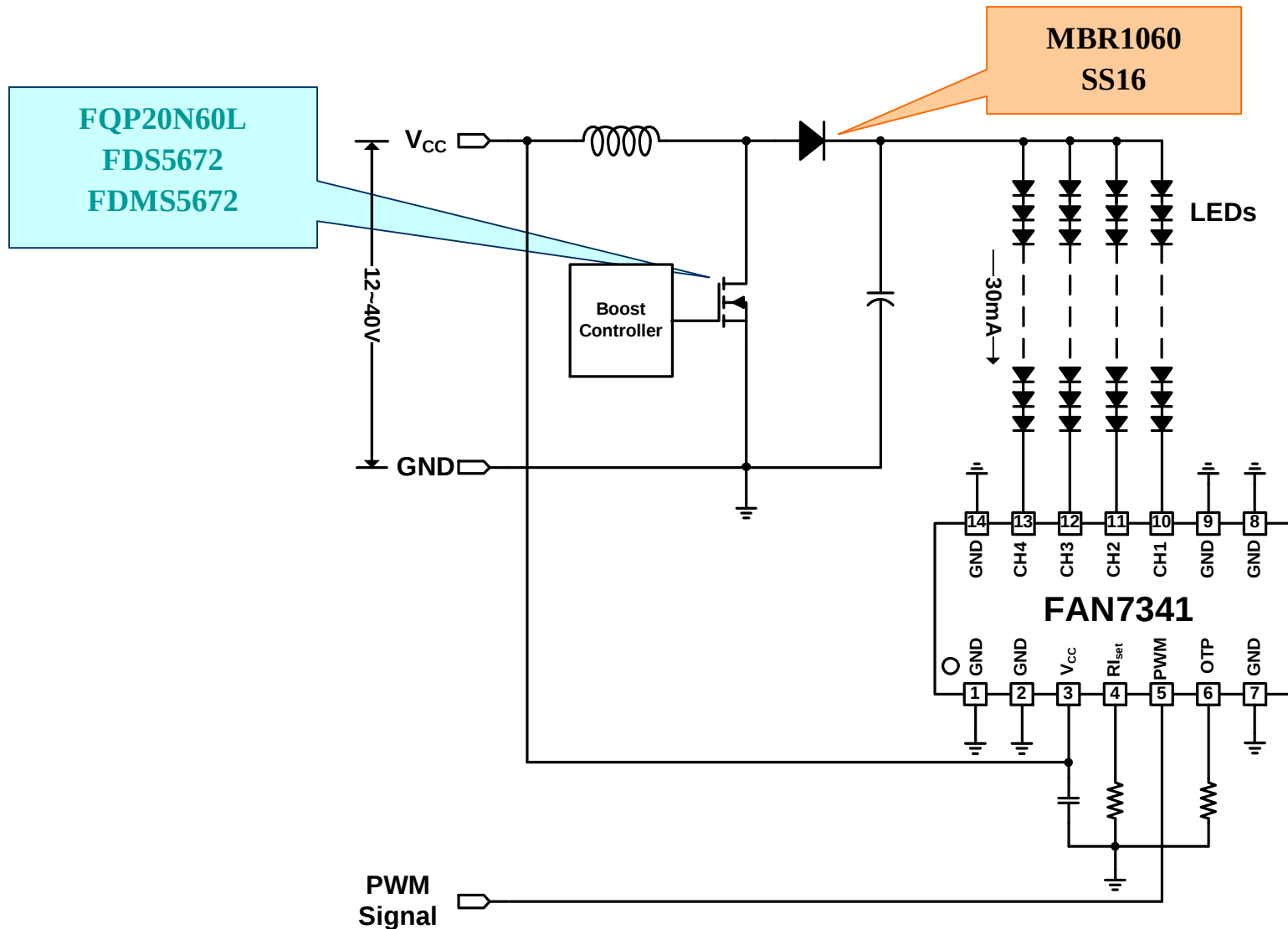


For 110Vac, the DC Bus is 200Vdc
220Vac, the DC Bus is 400Vdc

MOSFET : FCH47N60

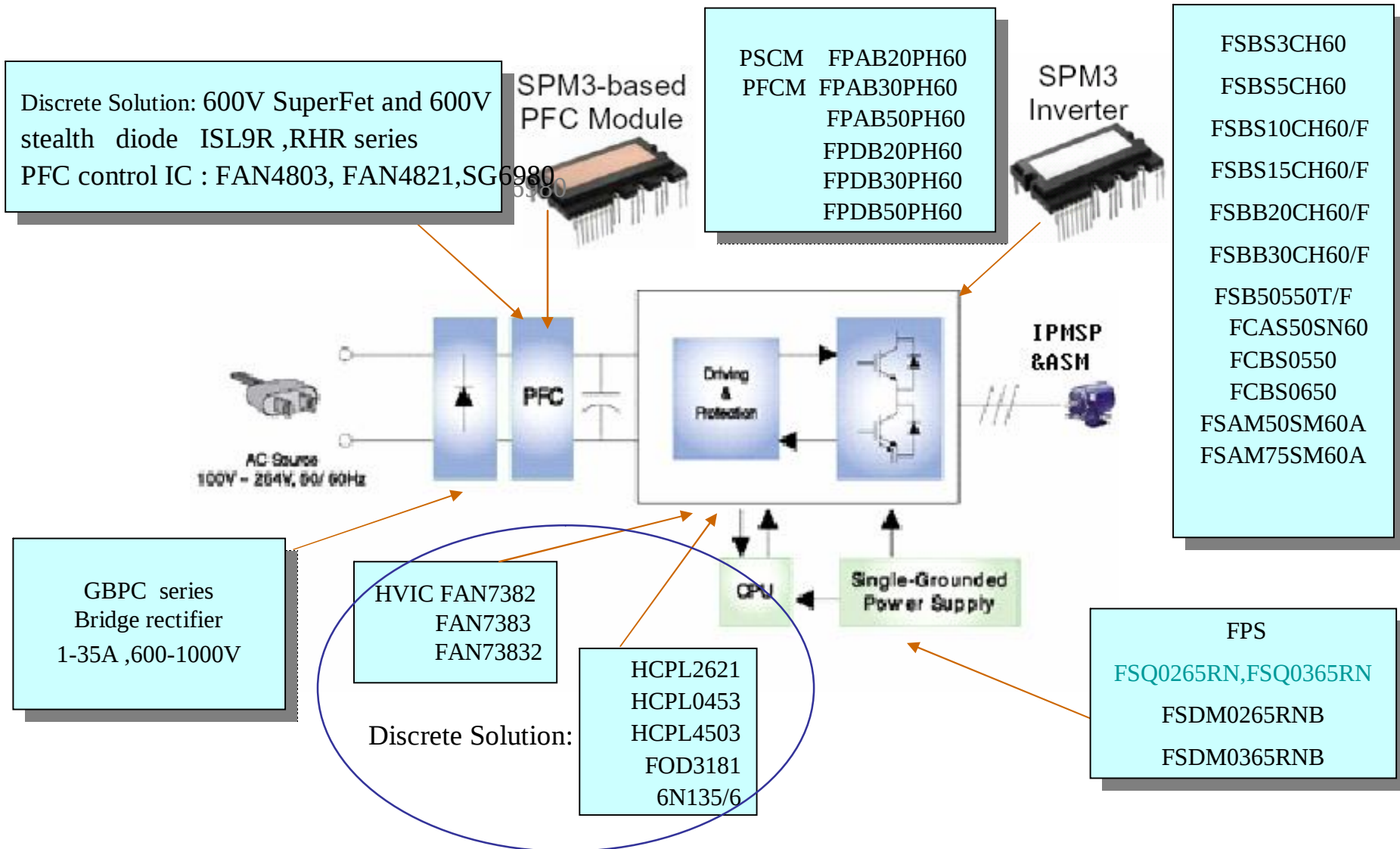
Diode : FFH50US60S, RHRG5060

LED BLU

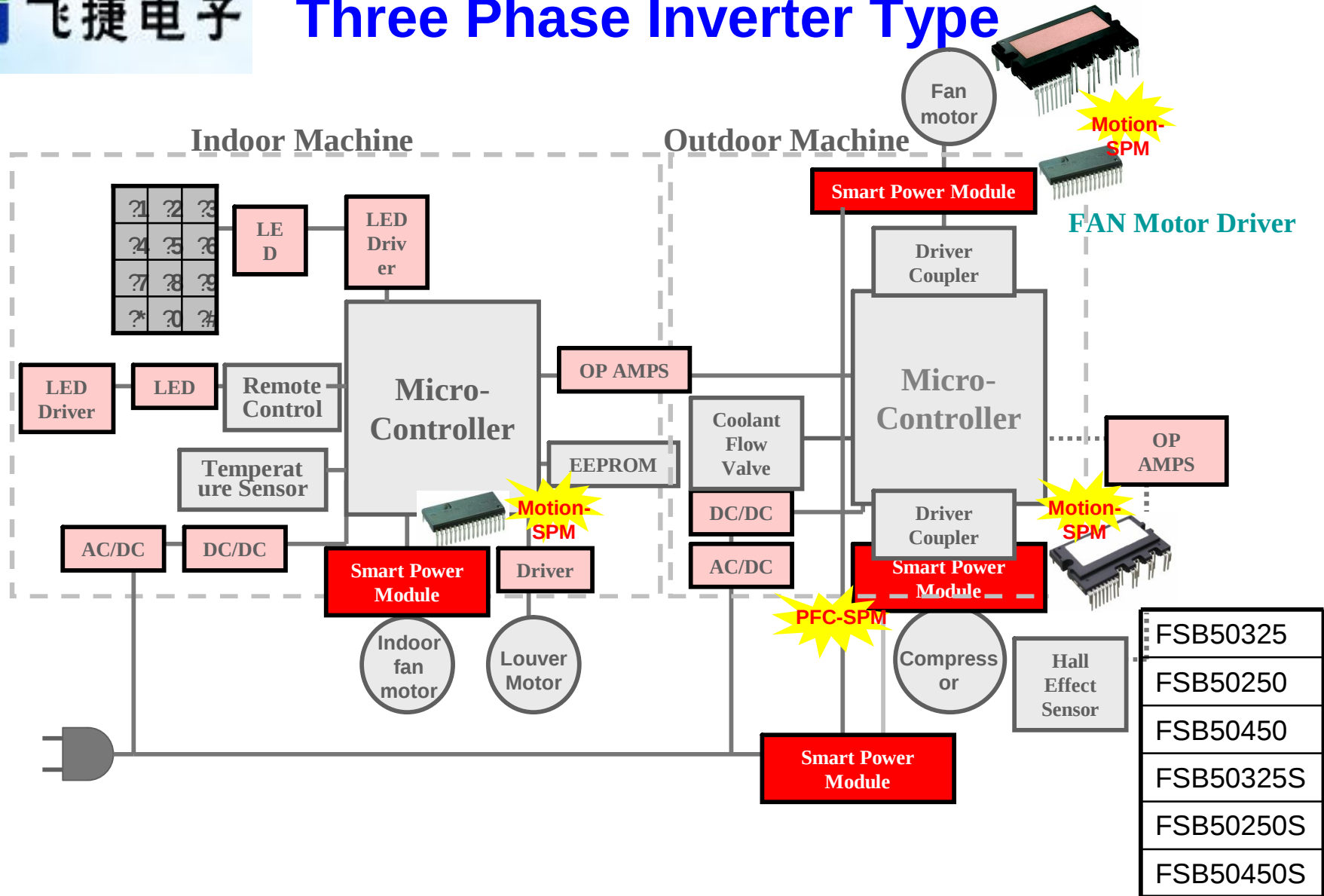


Home Appliance

Frequency conversion: Air-con, Wash Machine, Refrigerator

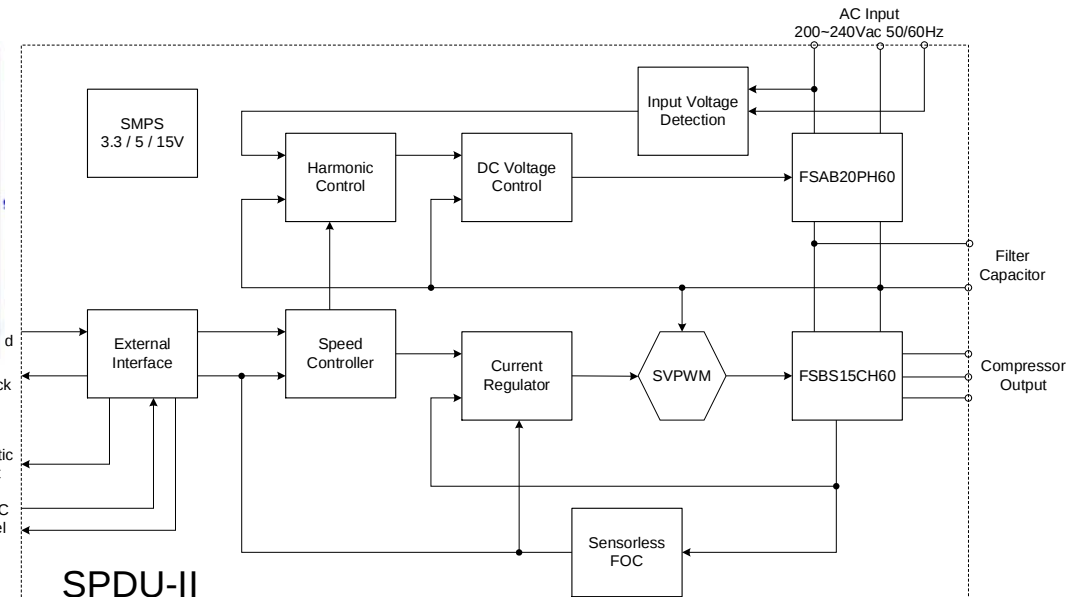
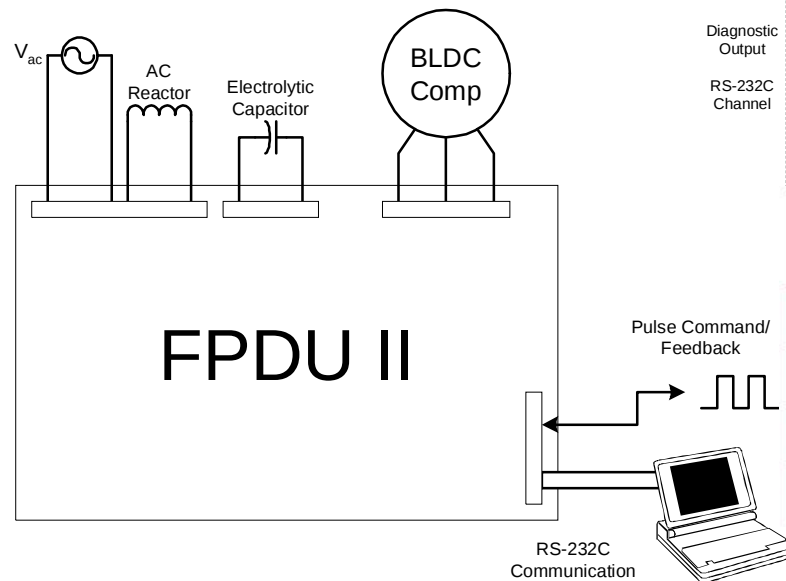
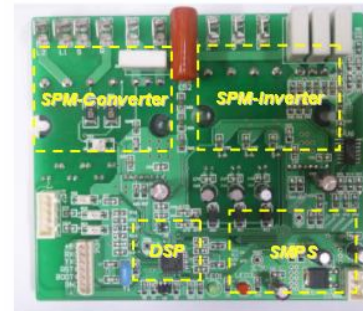
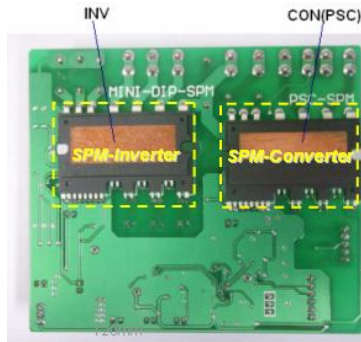


Three Phase Inverter Type



FAN Motor Driver

FPDU Roadmap Specification



SPDU-II

	Smart Power Module				DSP		Topology & Control Method	Application
	PSC SPM	PFC SPM	SPM3	SPIM	DSP 2401	DSP 2801		
FPDU1							BLDC Sensorless Drive Diode Rectifier	Refrigerator
FPDU1a							PM Sensorless Drive Diode Rectifier	Refrigerator
FPDU2							PM Sensorless Drive Partial Switching PFC	Consumer Air-conditioner
FPDU2a							PM Sensorless Drive Full Switching PFC	Commercial Air-conditioner

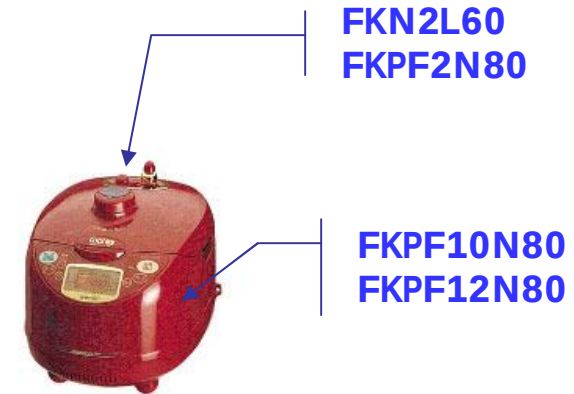
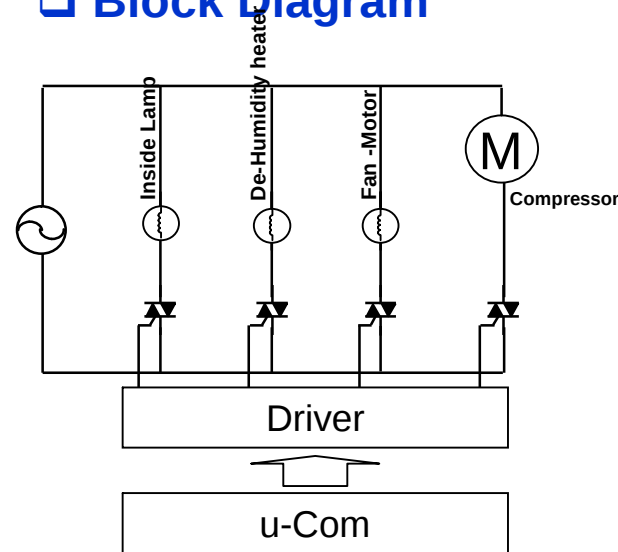
Home Appliance

Traditional conversion: IH cooker, Wash machine, refrigerator

Block Diagram



FKN2L60
FKPF3N80
FKPF12N80



FKN2L60
FKPF2N80

FKPF10N80
FKPF12N80

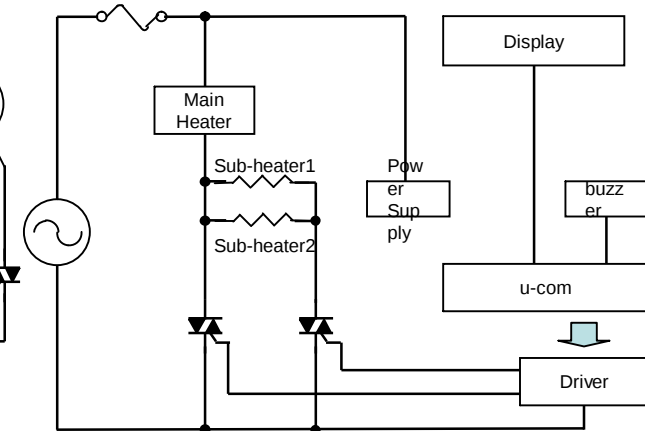
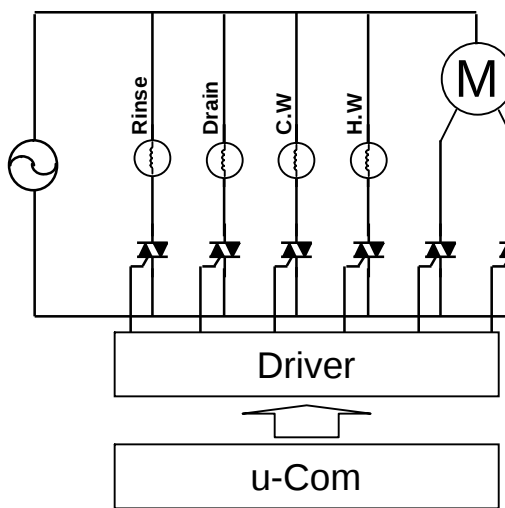
Block Diagram



FKN2L60
FKPF2N80

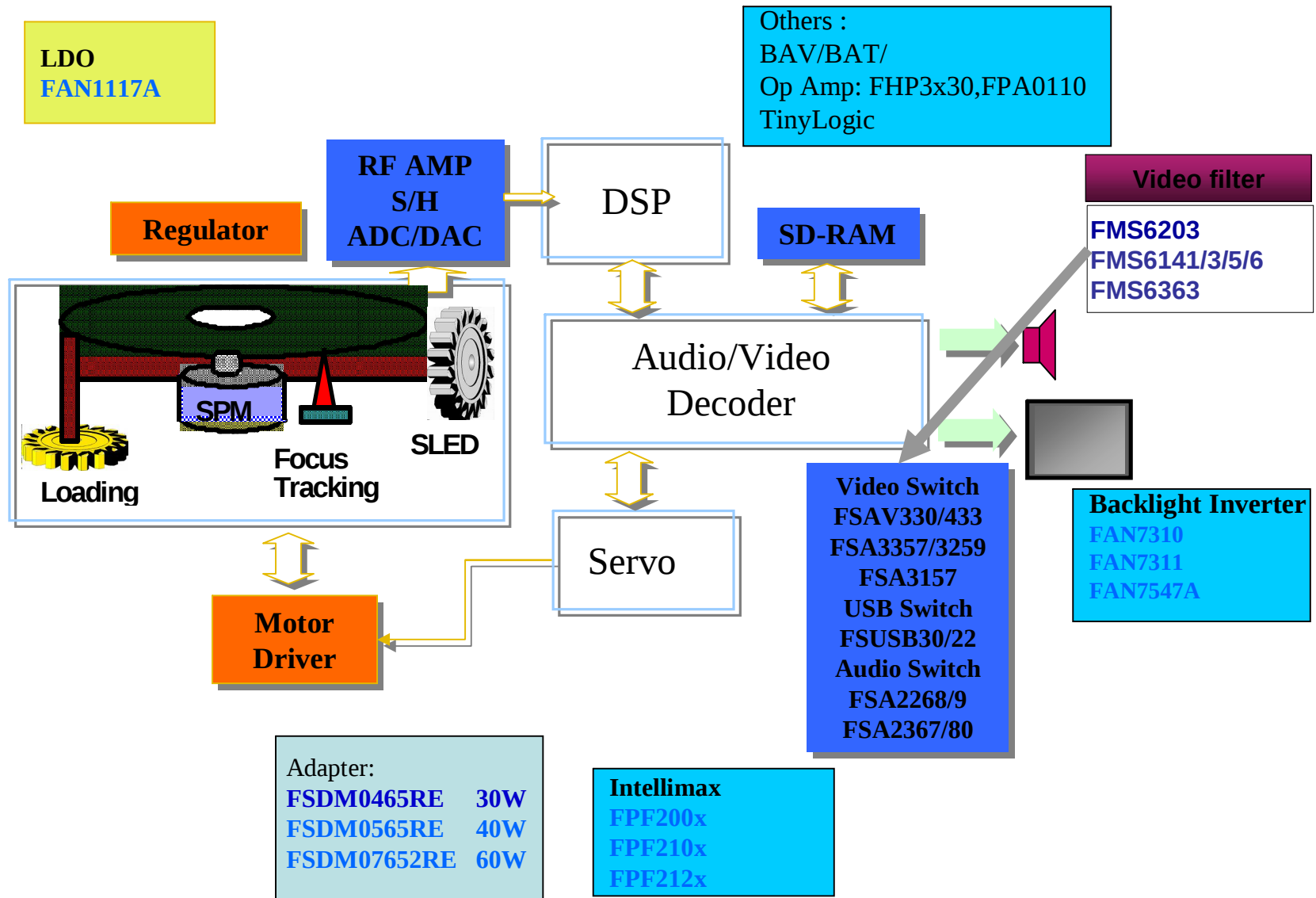
FKPF8N80
FKPF10N80
for Inverter type.
FPA(B)L10SH60
FPA(B)L15SH60
FSA(B)M10SH60
FSA(B)M15SH60

Block Diagram

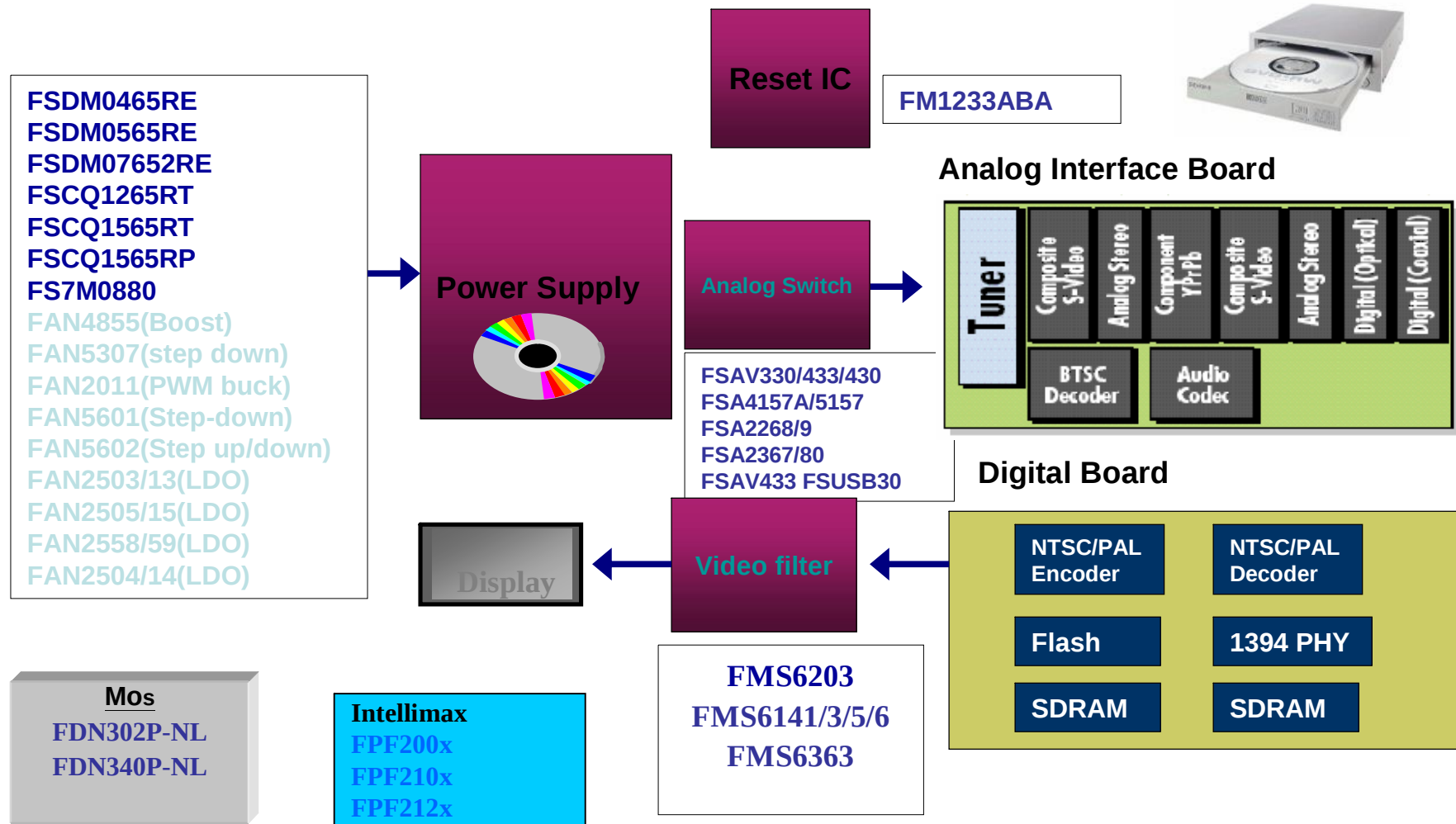




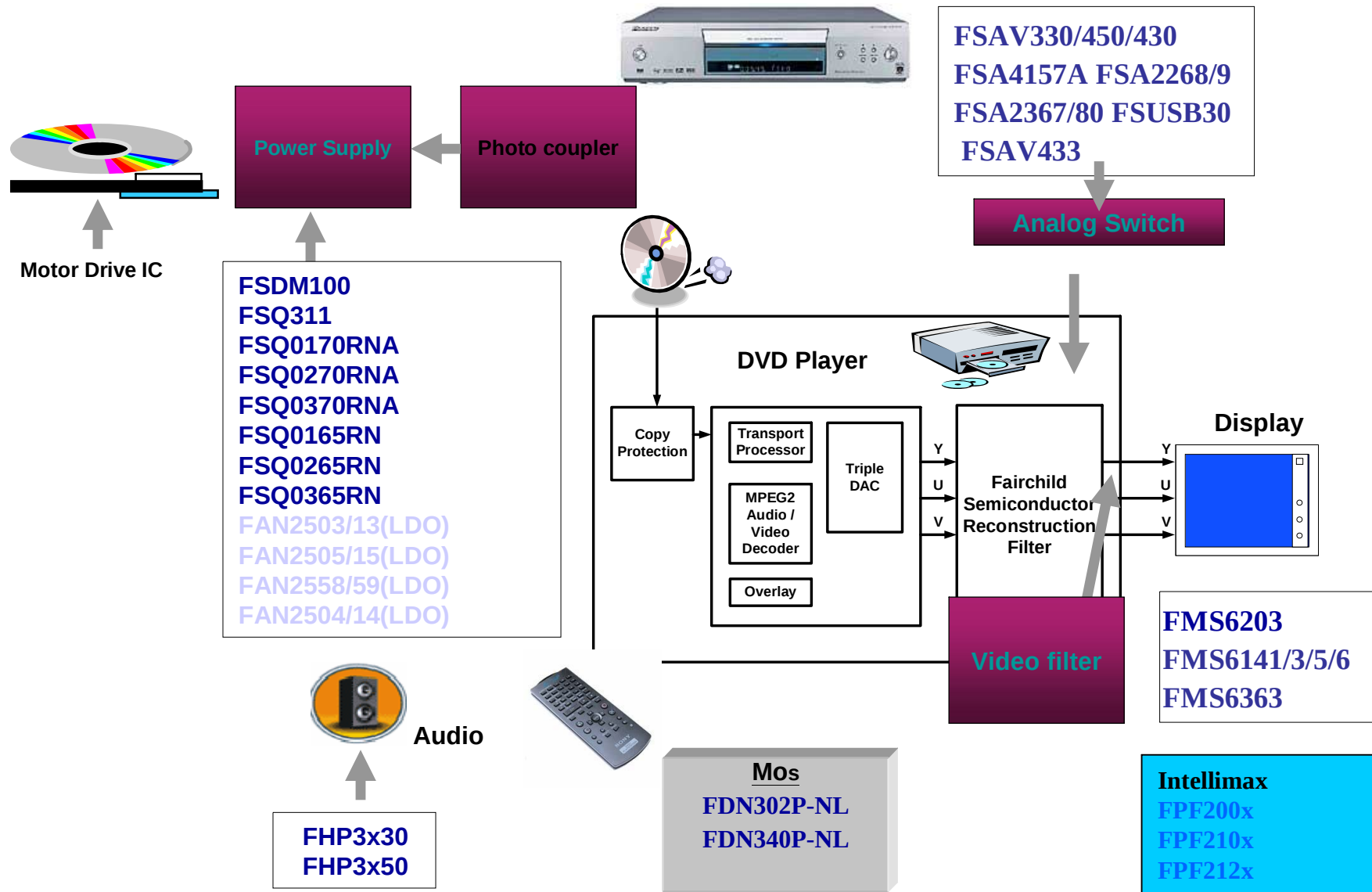
Portable DVDP



Solutions for DVD-RW Overview



Solutions for DVD Players overview

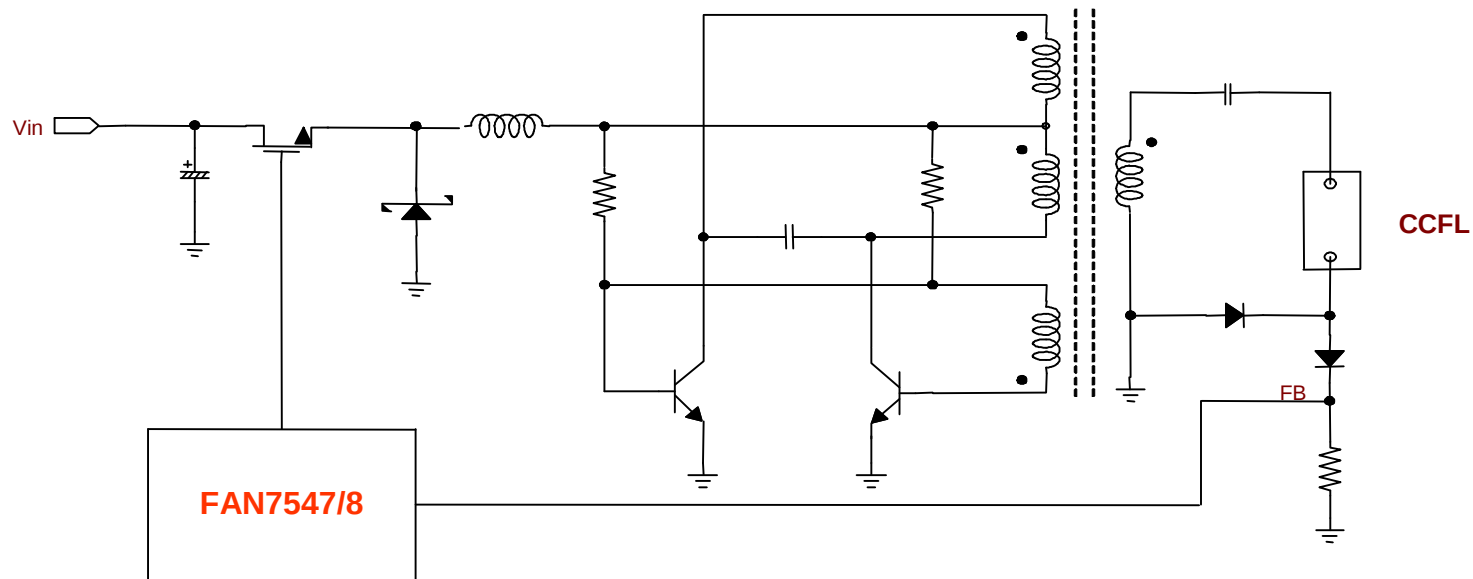


Lighting

Lighting Check List

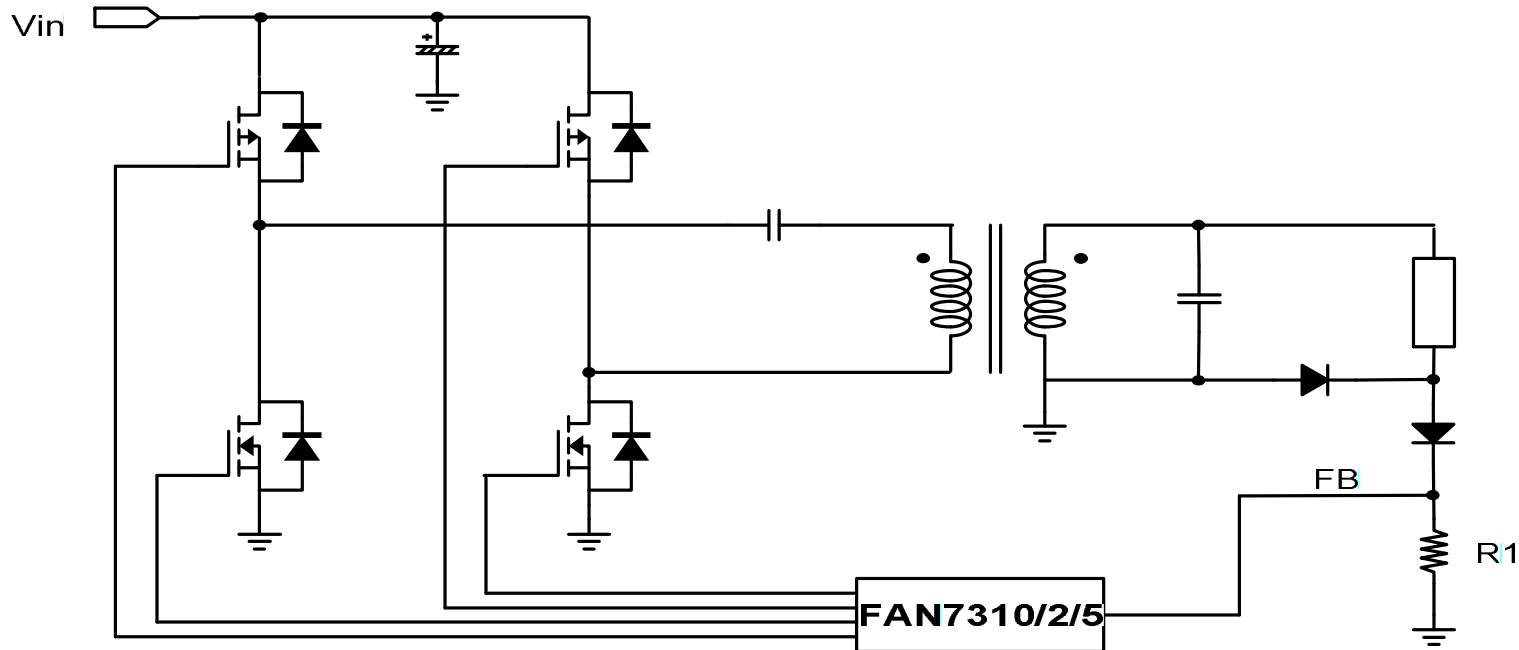
Family	Product ID	Function	Application
LCD backlight	FAN7546/7	Buck-Royer control IC	LCD TV/Monitor
	FAN7548	Dual PWM Buck-Royer control IC	
	FAN7310	Full-bridge LCD backlight control IC	
	FAN7311	Full-bridge LCD backlight control IC	
	FAN7314	Half-bridge/Push-Pull control IC	
	FAN7313	Push-Pull control IC	
	FAN7316	N-N half-bridge/Push-Pull control IC	
	FAN7315	High dimming F/B backlight control IC	Car Navigation
Ballast	KA7541	Ballast control IC	Ballast
	FAN7544	Improved KA7541	Ballast
	FAN7532	Ballast control IC + HVIC	Ballast
	FAN7535	Ballast control IC + HVIC + PFC	Ballast
	FAN7710	CFL ballast control IC + HVIC + Mosfet	CFL
	FAN7711	CFL ballast control IC + HVIC(350/650)	CFL/LFL/Ballast
HVIC	FAN7361	High side Mosfet driver(250/500)	Ballast,SMPS,PDP,Moto
	FAN7380	Half bridge gate driver(90/190)	Ballast,SMPS,PDP,Moto
	FAN7382	Half bridge gate driver(300/600)	Ballast,SMPS,PDP,Moto
	FAN7383/2	Half bridge gate driver(250/500)	Ballast,SMPS,PDP,Moto
	FAN7384	Half bridge gate driver(250/500)	Ballast,SMPS,PDP,Moto

CCFL Buck-Royer Solution



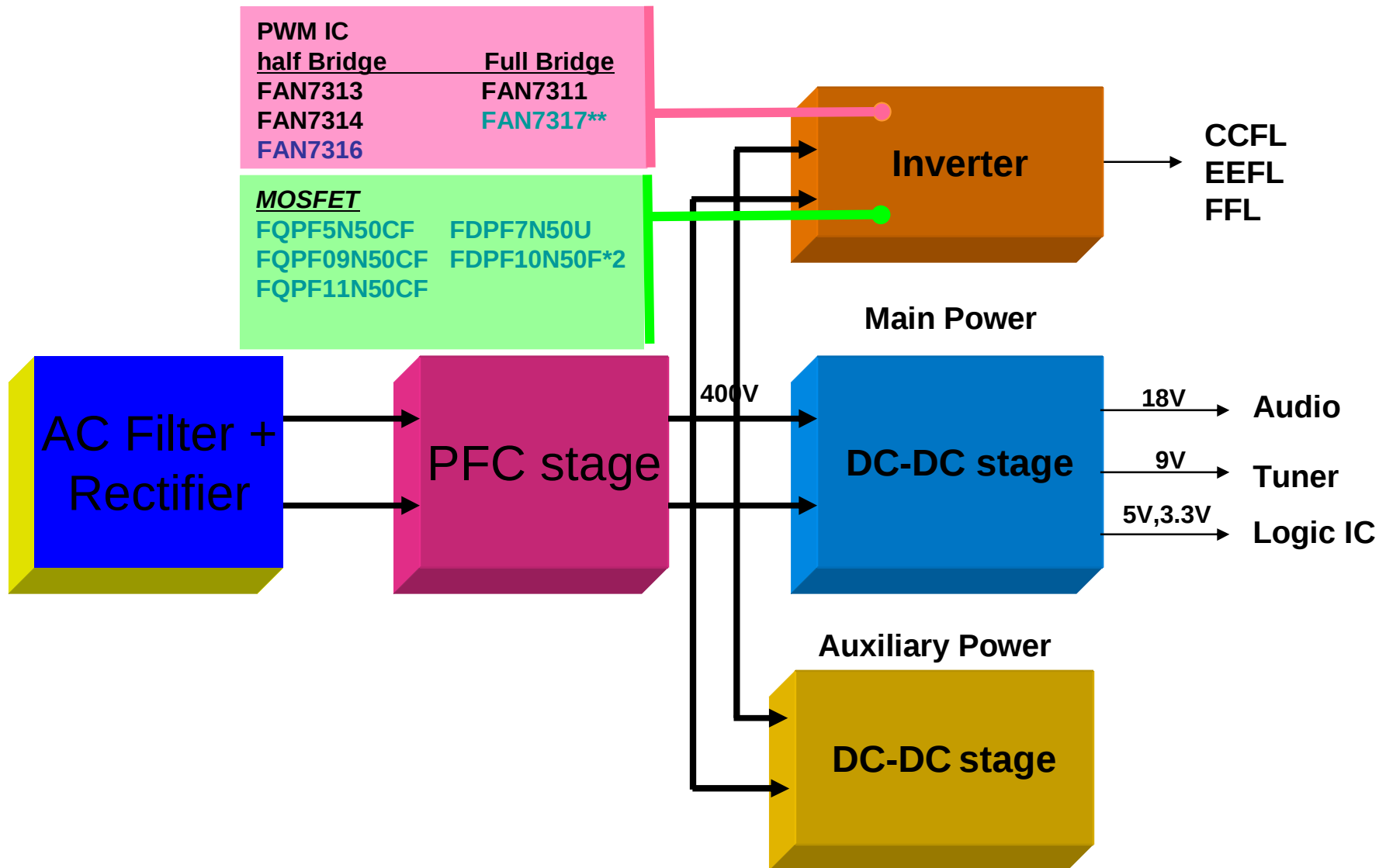
IC Single FAN7547AM (14SOP) Dual FAN7548AM (20SSOP)	P-Channel MOSFET Package SuperSOT-6 FDC652 (2.4A,30V) FDC654P(3.6A 30V) FDC658P(4A 30V)	NPN Transistor Package SOT-223 NZT560(3A 60V)	Schottky Diode Package SMB/DO-214AA SS23(2A 30V), SS24(2A 40V) SS25(2A 50V), SS26(2A 60V) Package SMC/DO-214AB SS33(3A 30V), SS34(3A 40V) SS25(3A 50V), SS36(3A 60V)	Diode BAV99, BAW56 1N4148 SS/ TR 2N3904, KST3904 (0.2A, 40V) FJC2098, NZT560
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CCFL Half/Full-Bridge Solution

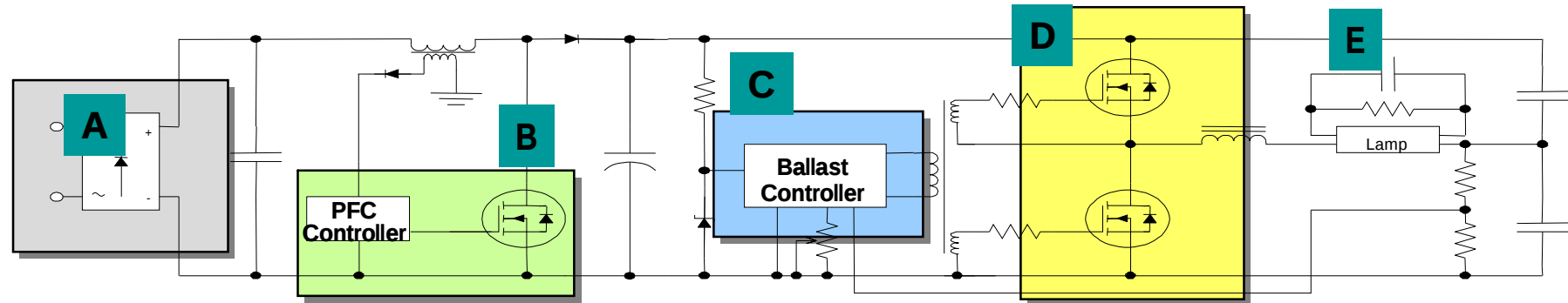


IC FAN7310 (N-P Full-bridge) FAN7311 (N-P Full-bridge) FAN7315(High Dimming) FAN7313(N-P Push/Pull) FAN7316(N-N Half-bridge)	P/N-Channel Dual MOSFET Package SO-8 FDS8958A/FDS8962C P-Channel Dual MOSFET FDS4935 N-Channel Dual MOSFET FDS6930A	P-Channel MOSFET FDS6685/4435, FDS6675/6679 FQB12P20 N-Channel MOSFET FDS6612/6690/6294 FQB10N20, FQB12N20	Diode BAV99, BAW56 1N4148 SS/ TR 2N3904, KST3904 (0.2A, 40V) KSR2103 (0.1A, -50V)
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Super IP LCD TV



□ Block diagram of LFL(Linear Fluorescent Lamp) Ballast



A	B		C	D		E
Bridge Rectifier : 2KBP10M GBU4M GBU6M	MOSFET: FQPF12N35 FQP(F)11N40 FQP/D3N50C FQP/D5N50C FQP/D6N50C FDD6N50 FQP/B9N50C FQP/B13N50C FDP20N50 FQP/D5N60C FQP/D6N60C FQD4/5/7N60* FCP7/11/16N60	PFC IC : FAN7530 Rectifier : RHRD660 RURD660 RURP860 FFPF05U60S	HV IC : FAN7380/2/3*/4* Ballast IC : FAN7532 FAN7535* FAN7711*	BJT: FJP3305/13007/13009 FJP/E/D/U5304D FJP5021 FJP5027 FJP5321 FJP5355 KSC5338 FJP5555, FJD5555* FJP5604*	MOSFET: FQPF12N35 FQP(F)11N40 FQP/D3N50C FQP/D5N50C FQP/D6N50C FDD6N50 FQP/B9N50C FQP/B13N50C FDP20N50 FQP/D/B3N60C FQP/D5N60C FQP/D6N60C FQD4/5/7N60* FCP7/11/16N60	MOSFET: FQN1N50C FQN1N60C FQT1N80*

[Blue characters : new product , * : Under Development]

- 350 ~ 500V MOSFET

Part Number	BV _{DSS} Min. [V]	I _D [A]	R _{DS(ON)} Max [ohm]	Q _g Typ. [nC]	Package
FDPF12N35	350	7.5	0.38	25	TO-220F
FQP/PF11N40C	400	11	0.53	28	TO-220/TO-220F
FQP/PF6N40C	400	6	1	16	TO-220/TO-220F
FQD/B6N40C	400	6	1	16	D-PAK/D2PAK
FQP/PF6N40CF	400	6	1.1	16	TO-220/TO-220F
FQD/U5N40	400	4.5	1.6	10	D-PAK/I-PAK
FQP/PF3N40	400	2.5	3.4	6	TO-220/TO-220F
FQP/PF9N50	500	9	0.73	28	TO-220/TO-220F
FQP/PF9N50C	500	9	0.8	28	TO-220/TO-220F
FQB/I9N50C	500	9	0.8	28	D2PAK/I2PAK
FQP/PF6N50C	500	5.5	1.2	19	TO-220/TO-220F
FQD/U6N50C	500	5.5	1.2	19	D-PAK/I-PAK
FQP/PF5N50C	500	5	1.4	18	TO-220/TO-220F
FQD/U5N50C	500	5	1.4	18	D-PAK/I-PAK
FQPF5N50CF	500	5	1.55	18	TO-220F
FQP/PF3N50C	500	3	2.5	10	TO-220/TO-220F
FQD/U3N50C	500	3	2.5	10	D-PAK/I-PAK
FQP/PF4N50	500	3.4	2.7	10	TO-220/TO-220F
FQD/U4N50	500	3.4	2.7	10	D-PAK/I-PAK
FQD/U2N50	500	2.1	5.3	6	D-PAK/I-PAK
FQD/U1N50	500	1.1	9	4	D-PAK/I-PAK
FQNL2N50B	500	0.35	5.3	6	TO-92L

- 600V MOSFET

Part Number	BV _{DSS} Min. [V]	I _D [A]	R _{DS(ON)} Max [ohm]	Q _g Typ. [nC]	Package
FCP11N60	600	11	0.38	40	TO-220
FCP7N60	600	7	0.6	25	TO-220
FCD/U7N60*	600	7	0.6	25	D/I PAK
FCD/U5N60*	600	5	0.95	16	D/I PAK
FCP4N60*	600	7	1.2	12.5	D PAK
FQP/PF12N60C	600	12	0.65	48	TO-220/TO-220F
FQP/PF12N60	600	10.5	0.7	42	TO-220/TO-220F
FQB/I7N60	600	7.4	1	29	D2PAK/I2PAK
FQP/PF8N60C	600	7.5	1.2	28	TO-220/TO-220F
FQB/I8N60C	600	7.5	1.2	28	D2PAK/I2PAK
FQP/PF6N60C	600	5.5	2	16	TO-220/TO-220F
FQP/PF5N60C	600	4.5	2.5	15	TO-220/TO-220F
FQD/U5N60C	600	4.5	2.5	15	DPAK/IPAK
FQP/PF3N60	600	3	3.6	10	TO-220/TO-220F
FQD/U3N60	600	3	3.6	10	DPAK/IPAK
FQPF2N60	600	2.4	4.7	9	TO-220F
FQP/PF2N60C	600	2	4.7	8.5	TO-220/TO-220F
FQD/U2N60C	600	2	4.7	8.5	DPAK/IPAK
FQU1N60	600	1	11.5	5	IPAK
FQN1N60C	600	0.3	11.5	4.8	TO-92

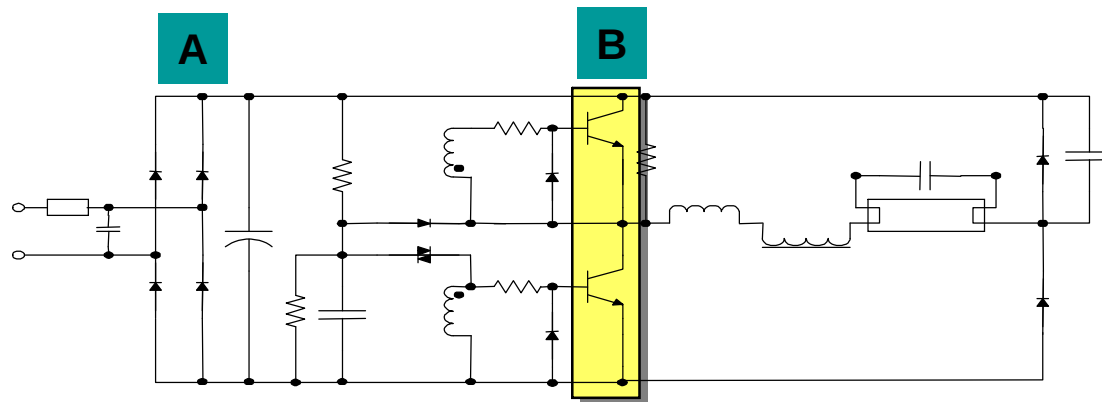
Linear Ballast

- 800V/900V/1000V MOSFET

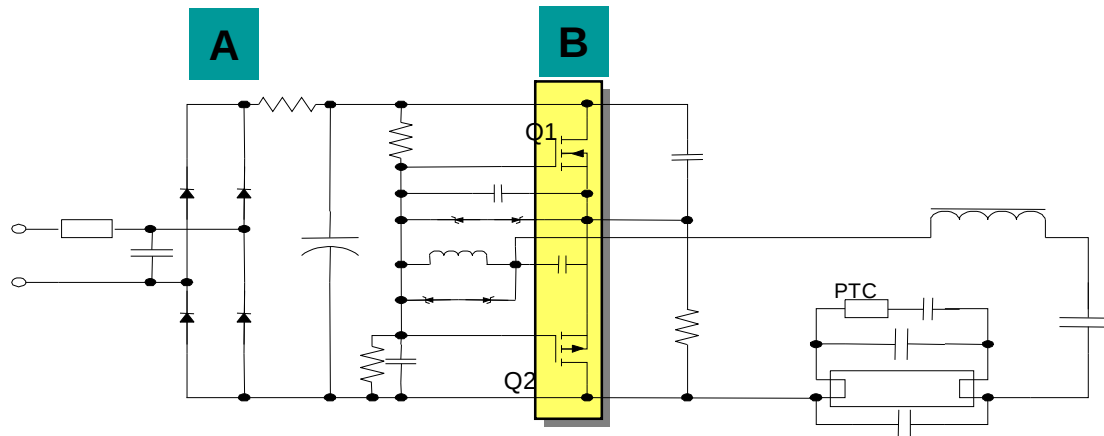
Part Number	BV _{DSS} Min. [V]	I _D [A]	R _{DS(ON)} Max [ohm]	Q _g Typ. [nC]	Package
FQPF7N80	800	6.6	1.5	40	TO-220F
FQI7N80	800	6.6	1.5	40	I2PAK
FQPF6N80	800	5.8	1.95	31	TO-220F
FQP5N80	800	4.8	2.6	25	TO-220
FQP/PF4N80	800	3.9	3.6	19	TO-220/TO-220F
FQP/PF3N80C	800	3	4.8	13	TO-220/TO-220F
FQP/PF3N80	800	3	5	15	TO-220/TO-220F
FQP/PF2N80	800	2.4	6.3	12	TO-220/TO-220F
FQD/U2N80	800	2.4	6.3	12	DPAK/IPAK
FQP6N90	900	5.8	1.9	40	TO-220
FQP5N90	900	5.4	2.3	31	TO-220
FQP/PF4N90	900	4.2	3.1	24	TO-220/TO-220F
FQP/PF4N90C	900	4	4.2	17	TO-220/TO-220F
FQP/PF3N90	900	3.6	4.25	20	TO-220/TO-220F
FQP/PF2N90	900	2.2	7.2	12	TO-220/TO-220F
FQD/U2N90	900	2.2	7.2	12	DPAK/IPAK
FQD/U2N100	1000	1.7	10	12	DPAK/IPAK

Compact Ballast

□ Block Diagram for CFL(Compact Fluorescent Lamp) Ballast - N-N dual self oscillation type



- N-P dual self oscillation type



A	B	
Bridge Rectifier DF10M 2W10G 1N4007	BJT: FJN13003 FJN3303 FJE3303 FJP/PF3305	MOSFET: FDD6N20* FDD6N25* FDD3N40* FQS4901 FQS4903 SSN1N45B FQN1N50C FQNL2N50B FQN1N60C FQP3P50 FQN4N50
	IC+MOSFET : FAN7710*	

Compact Ballast

- Power BJT

BVcbo	BVceo	1~1.5A	2A	4A	5A	8A	12A
700	400	FJN13003 FJN3303 FJE3303		FJP/PF3305 FJP/E5304D FJD/U5304D		FJP/PF13007 FJP3307D	FJP/PF13009
800 (900)	400		KSC5302D		KSC5039 KSC5305D FJP5355		
	(450) 500				FJP5021 FJP5321		
1000 (1100)	(400) 450		KSC5402DT	FJP5554*	KSC5338 KSC5338D FJP/PF5555 FJD5555*		
1100	800	KSC5026		FJP5027		KSC5030F	
1200	600		KSC5502D	KSC5504D			
1600	800			KSC5603D FJP5604*			

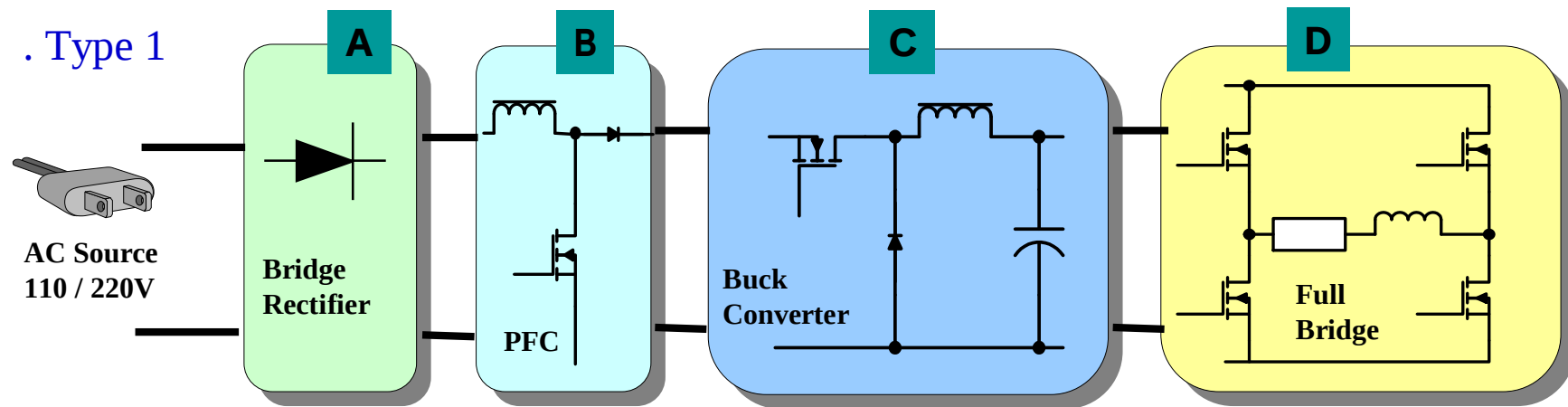
Compact Ballast

- MOSFET (N channel)

Part Number	BV _{DSS} Min. [V]	I _D [A]	R _{DS(ON)} Max [ohm]	Q _g Typ. [nC]	Package
FQD/U7N20	200	6.6	0.69	8	DPAK/IPAK
FDD6N20*	200	6	0.8	6	DPAK
FQT/D4N25	250	0.83	1.75	4.3	SOT-223/DPAK
FQD6N25	250	5.5	1	6.6	DPAK
FDD6N25*	250	6	0.8	6	DPAK
FQD8N25	250	6.2	0.55	12	DPAK
FQD/U9N25C	250	8.8	0.43	26.5	DPAK/IPAK
FQP9N30	300	9	0.45	17	TO-220
FQP5N30	300	5.4	0.9	9.8	TO-220
FQP3N30	300	3.2	2.2	5.5	TO-220
FQD2N40	400	1.8	5.8	4	D-PAK
FDD3N40*	400	3	3.4	6	D-PAK
SSM1N45B	450	0.5	4.25	6.5	SOT-223
SSN1N45B	450	0.5	4.25	6.5	TO-92
FQD/U3N50C	500	3	2.5	10	D-PAK/I-PAK
FQD/U4N50	500	3.4	2.7	10	D-PAK/I-PAK
FQD/U2N50	500	2.1	5.3	6	D-PAK/I-PAK
FQD/U1N50	500	1.1	9	4	D-PAK/I-PAK
FQNL2N50B	500	0.35	5.3	6	TO-92L
FQNL1N50B	500	0.27	9	4	TO-92L
FQU1N60	600	1	11.5	5	IPAK
FQN1N60C	600	0.3	11.5	4.8	TO-92

HID Ballast

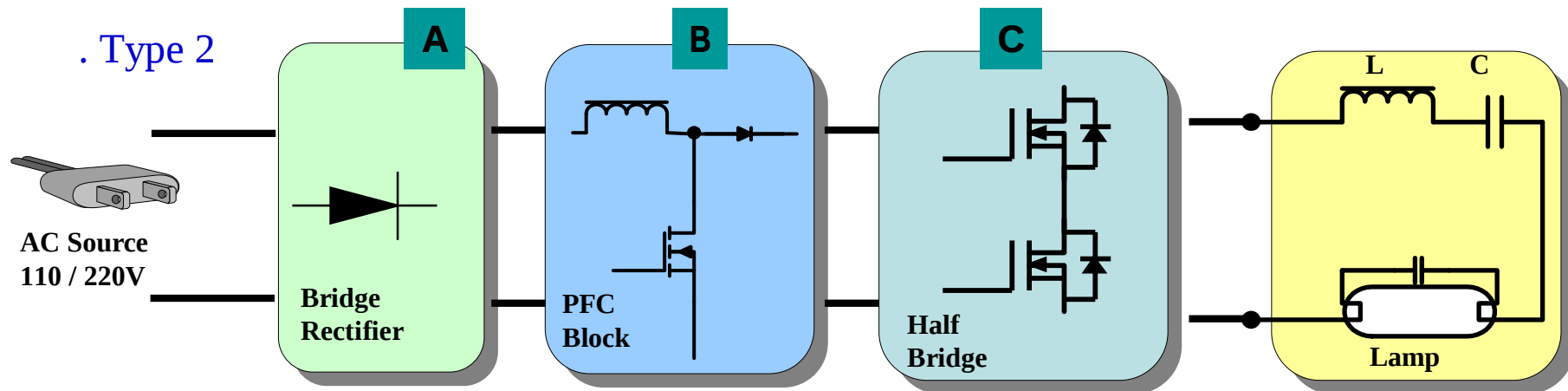
□ Block Diagram for HID(High Intensity Discharge) Ballast



A	B		C		D	
Bridge Rectifier : 2KBP10M GBU4M GBU6M	MOSFET: FDD6N50 FQP/B9N50C FQP/B13N50C FDP20N50 FQD5/7N60* FCP7/11/16/20N60	PWM IC : FAN7530 Rectifier : RHRD660 RURD660 ISL9R460	MOSFET : FDD6N50 FQP/B9N50C FQP/B13N50C FDP20N50 FQD5/7N60* FCP7/11/16/20N60 Rectifier : RHRD660 RURD660 ISL9R460	HV IC : FAN7361 FAN7362 FAN7382	MOSFET: FDP39N20 FDP52N20 FDP61N20 FQPF19N20C FQP32N20C FDS2672* FDP/I33N25 FDPF44N25T FDP51N25 FQP/PF16N25 FDS2734*	IGBT : FGD3N60LSD FGPF7N60LSD HV IC : FAN7380/2/3*/4*

[Blue characters : new product , * : Under Development]

□ Block Diagram for HID(High Intensity Discharge) Ballast



A	B		C	
Bridge Rectifier : 2KBP10M GBU4M GBU6M	MOSFET: FDD6N50 FQP/B9N50C FQP/B13N50C FQP18N50V2 FDP20N50 FQD4/5/7N60* FCP7/11/16N60	PFC IC : FAN7530 Rectifier : RHRD660 RURD660 FFPF10UP60 FFPF10H60	MOSFET: FDD6N50 FQP/B9N50C FQB9N50CF FQP/B13N50C FQP18N50V2 FDPF16N50 FDP20N50 FQD4/5/7N60* FCP7/11/16N60	HV IC : FAN7380/2/3*/4* Ballast IC : FAN7532 FAN7535* FAN7711*

[Blue characters : new product , * : Under Development]

- MOSFET (N channel)

Part Number	BV_{DSS} Min. [V]	I_D [A]	$R_{DS(ON)}$ Max [ohm]	Q_g Typ. [nC]	Package
FDP61N20	200	61	0.041	58	TO-220
FDP39N20	200	39	0.066	38	TO-220
FQPF34N20	200	31	0.075	60	TO-220F
FQPF32N20C	200	28	0.082	82.5	TO-220F
FQP/PF18N20V2	200	18	0.14	20	TO-220/TO-220F
FQP19N20C	200	19	0.17	40.5	TO-220
FDS2672*	200	4.5	0.08	34	8SOP
FDP51N25	250	51	0.06	55	TO-220
FDP/I33N25*	250	33	0.094	48	TO-220/I2-PAK
FQPF27N25	250	25.5	0.11	50	TO-220F
FQP/PF16N25	250	16	0.23	27	TO-220/TO-220F
FQP/D16N25C	250	15.6	0.27	41	TO-220/DPAK
FDS2734*	250	6	0.15	34	8SOP
FDP20N50	500	20	0.23	45.6	TO-220
FQP/PF18N50V2	500	18	0.265	42	TO-220/TO-220F
FDP/B15N50	500	15	0.38	33	TO-220/D2PAK
FQP/PF13N50	500	12.5	0.43	45	TO-220/TO-220F
FQP/PF13N50C	500	13	0.48	43	TO-220/TO-220F
FDD6N50	500	6	0.9	16.6	DPAK
FCP20N60	600	20	0.19	75	TO-220
FCP16N60	600	16	0.26	55	TO-220
FCP11N60	600	11	0.38	40	TO-220
FCP7N60	600	7	0.6	25	TO-220
FCD/U7N60*	600	7	0.6	25	DPAK/IPAK
FCD/U5N60*	600	5	0.95	16	DPAK/IPAK

SuperFET Line-up

Product	BV _{DSS}	R _{DS(on)}	ID (25°C)	Q _{g,typ}	T _{rr,typ}	Package	Sample	CorssReference	
FSC	[V]	[Ω]	[A]	[nC]	[nS]		Available date	Infineon	ST Micro
FCD4N60*	600	1.2	3.9	12.5	270	D-PAK	Jul-06	SPD03N60C3	STD3NM60T4
FCD5N60*	600	0.95	4.6	16	295	D-PAK	Jul-06	SPD04N60C3	STD5NM60
FCU5N60*						I-PAK	Jul-06		STD5NM60-1
FCD7N60*	600	0.6	7	25	390	D-PAK	Jul-06	SPD07N60C3	
FCU7N60*						I-PAK	Jul-06		
FCP7N60						TO-220	Available	SPP07N60C3	STP8NM60
FCPF7N60						TO-220F	Available	SPA07N60C3	STP8NM60FP
FCP11N60	600	0.38	11	40	390	TO-220	Available	SPP11N60C3	STP11NM60
FCPF11N60						TO-220F	Available	SPA11N60C3	STP11NM60FP
FCI11N60						I2PAK	Available		STB11NM60
FCB11N60						D2-PAK	Available	SPB11N60C3	STB11NM60-1
FCP11N60F	600	0.38	11	40	120	TO220	Available	SPP11N60CFD	STP11NM60FD
FCPF11N60F						TO-220F	Available		STP11NM60FDFP
FCP11N65	600	0.38	11	40	390	TO-220	Available	SPP11N65C3	
FCPF11N65						TO-220F	Available	SPA11N65C3	
FCP16N60	600	0.26	16	55	450	TO-220	Available	SPP15N60C3	STP20NM60
FCA16N60						TO-3P	Available	SPW15N60C3	STW20NM60
FCP20N60	600	0.19	20	75	530	TO-220	Available	SPP20N60C3	STP20NM60
FCPF20N60						TO-220F	Available	SPA20N60C3	STP20NM60FP
FCB20N60						D2-PAK	Available	SPN20N60C3	STB20NM60
FCA20N60						TO-3P	Available	SPW20N60C3	STW20NM60
FCH20N60						TO-247	Available	SPW20N60C3	STW20NM60
FCH20N60F					120	TO-247	Available	SPW20N60CFD	
FCA47N60	600	0.07	47	220	590	TO-3P	Available	SPW47N60C3	
FCH47N60						TO-247	Available	SPW47N60C3	
FCH47N60F					120	TO-247	Available	SPW47N60CFD	

Compact Ballast

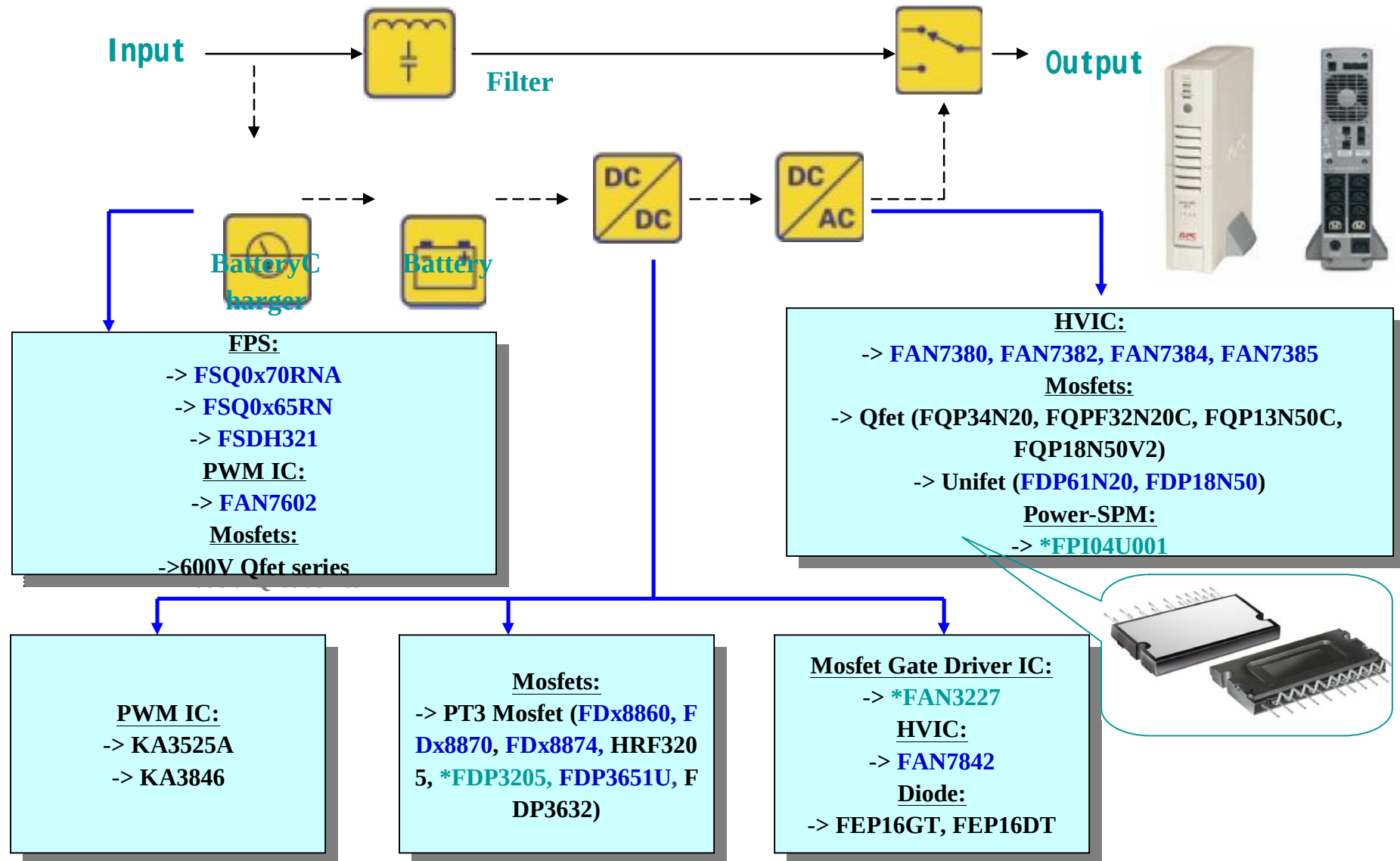
- MOSFET (N/N channel)

Part Number	BV _{DSS} Min. [V]	I _D [A]	R _{DS(ON)} Max [ohm]	Q _g Typ. [nC]	Package
FQS4901	400/400	0.45	4.2	5.8/5.8	8SOP(N/N)
FQS4903	500/500	0.37	6.2	6.3/6.3	8SOP(N/N)

- MOSFET (P channel)

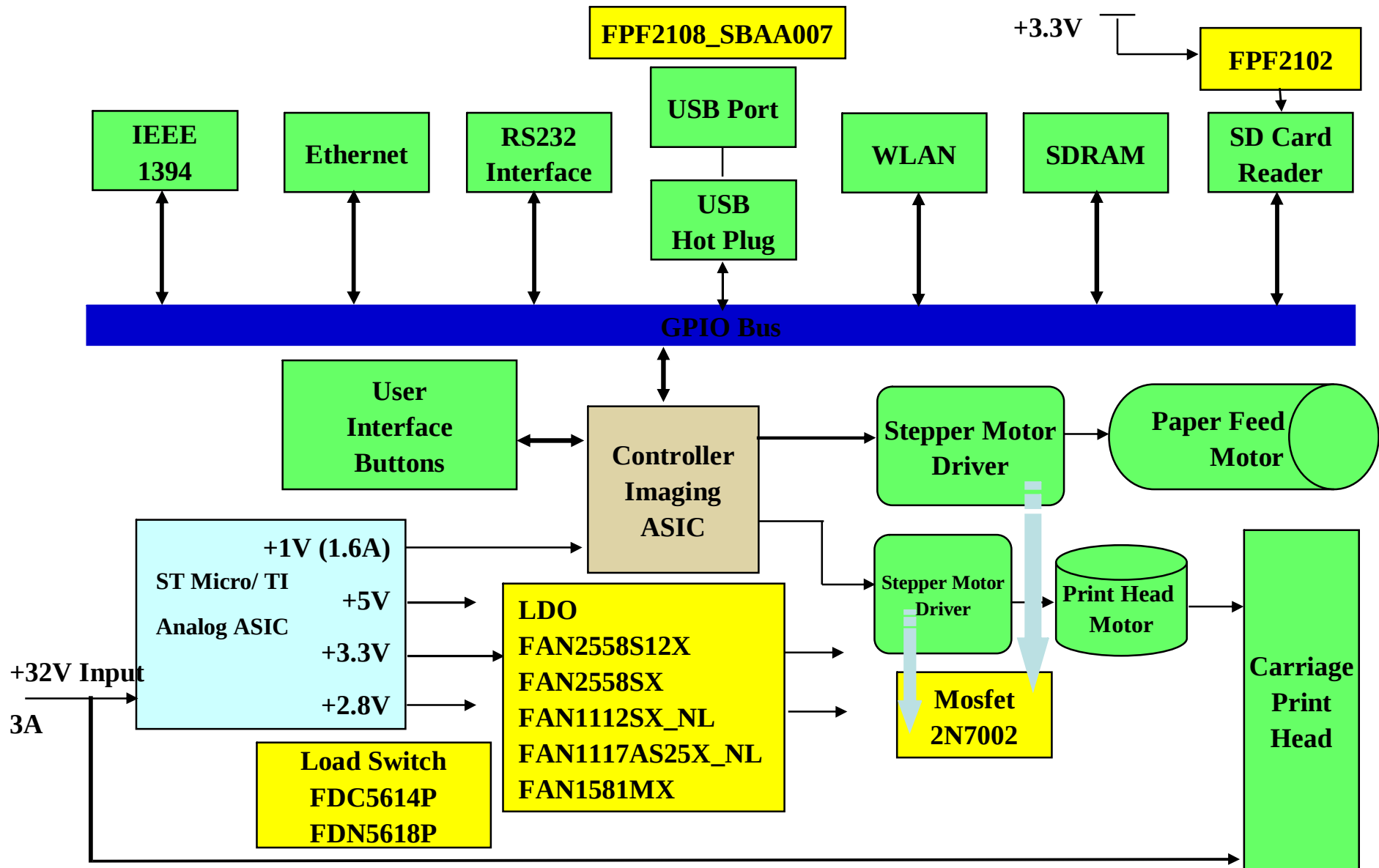
Part Number	BV _{DSS} Min. [V]	I _D [A]	R _{DS(ON)} Max [ohm]	Q _g Typ. [nC]	Package
FQD/U3P50	-500	2.7	4.9	18	DPAK/IPAK
FQD1P50	-500	1.5	10.5	11	DPAK
FQD4P40	-400	2.7	3.1	18	DPAK
FQD2P40	-400	1.6	6.5	10	DPAK
FQB9P25	-250	9.4	0.62	29	D2PAK
FQD4P25	-250	4	2.1	10	DPAK
FQB/I2P25	-250	2.3	4	6.5	D2PAK/I2PAK
FQD/U7P20	-200	7.3	0.69	19	DPAK/IPAK
FQD/U5P20	-200	4.8	1.4	10	DPAK/IPAK
FDD5P20*	-200	5	1.5	15	DPAK
FQB/D3P20	-200	2.8	2.7	6	D2PAK/DPAK
SFR/U9210	-200	1.6	3	9	DPAK/IPAK
SFR/U9220	-200	3.1	1.5	15	DPAK/IPAK

UPS " Standby or Off-line

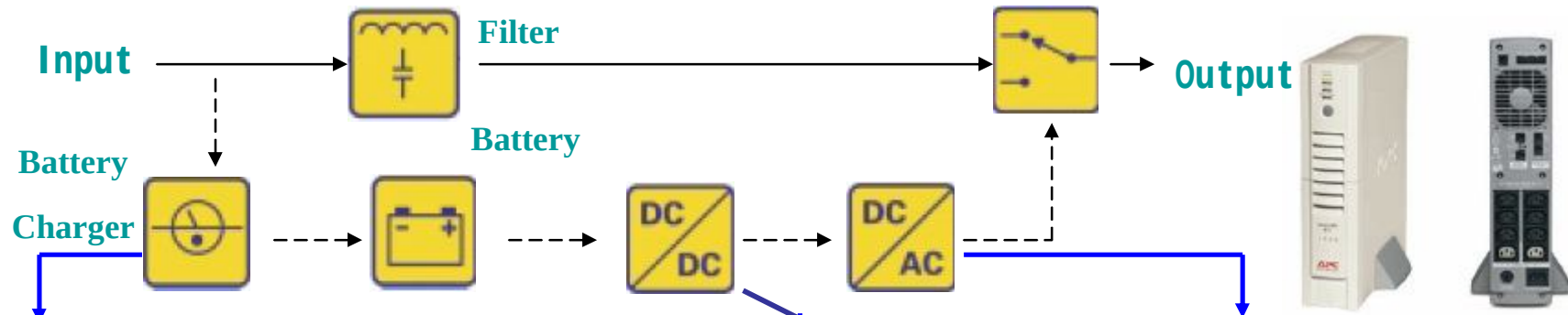


[Blue characters : new product , * : Under Development]

FSC Solution for Inkjet Printer



UPS " Standby or Off-line



FPS(Controller+MOSFET):

- > FSQ0x70RNA
- > FSQ0x65RN

PWM IC:

- > FAN7602B, SG5841, SG674x

Mosfets:

- > 600V Q-FET series
- > UniFET (60V, 80V, 150V, 500V)
- > SuperFET
FCP20N60
FCP47N60
- > FRFET series
FxxxxN50F

High Voltage Diode

- > Hyper Fast:
FFP08H60S, FFP10H60S
- > Soft Recovery
FFP08S60S, FFP15S60S

Mosfet Gate Driver IC:

- > *FAN3227
- > FOD3180 (Photocoupler)

HVIC:

- > FAN7842

Diode:

- > FEP16GT, FEP16DT

HVIC:

- > FAN7380, FAN7382, FAN7384, FAN7385

Mosfets:

- > Qfet (FQP34N20, FQPF32N20C, FQP13N50C,
- > Unifet (FDP61N20, FDP18N50, FDP20N50)
- > SuperFET (FCP20N60, FCP47N60)

Power-SPM:

- * FPI04U001

PWM IC:

- > KA3525A
- > KA3846

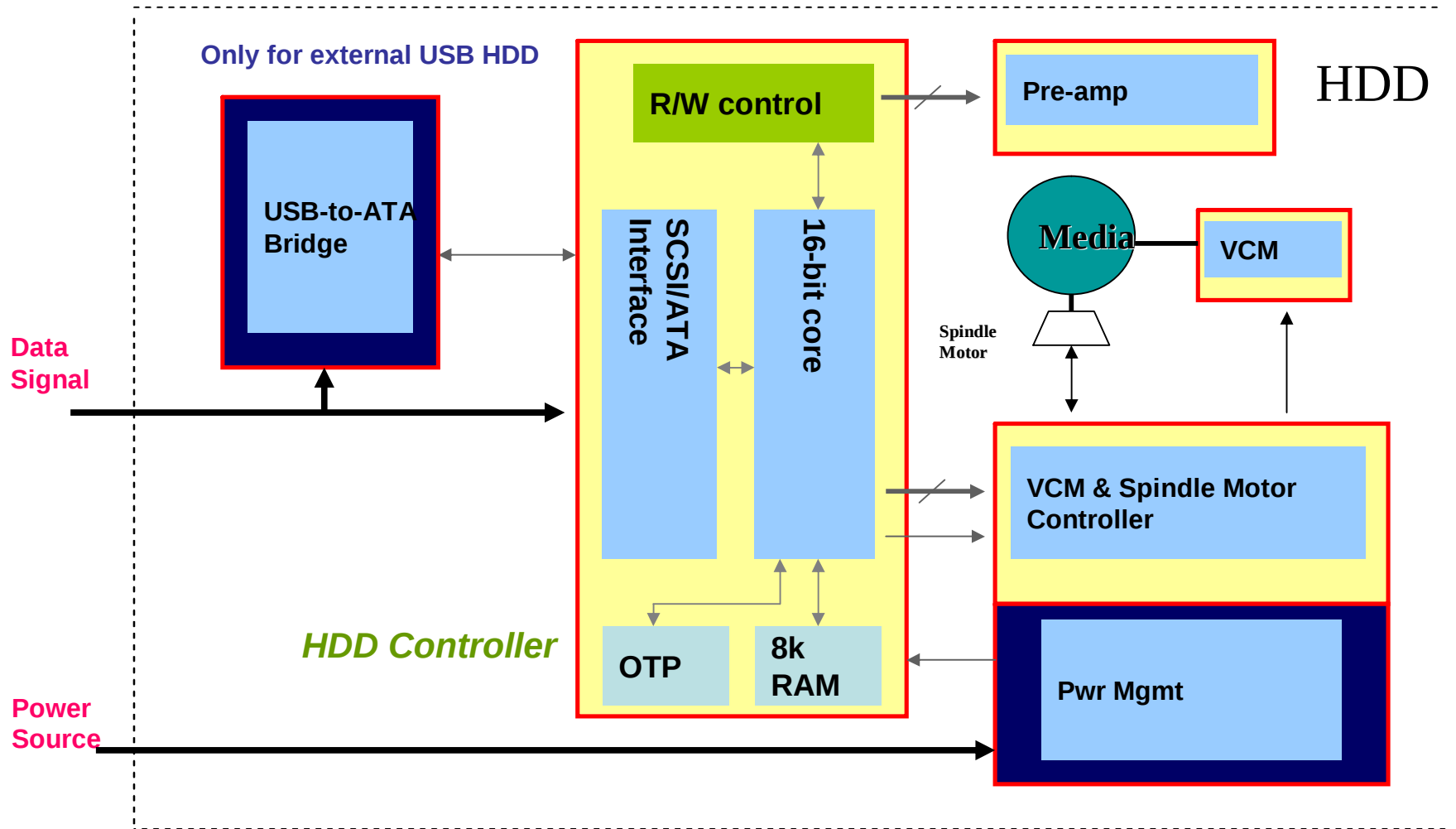
Mosfets:

- > PT3 Mosfet
FDx8860, FDx8870, FDx8874, HRF3205, *FDP3205, FDP3651U, FDP3632

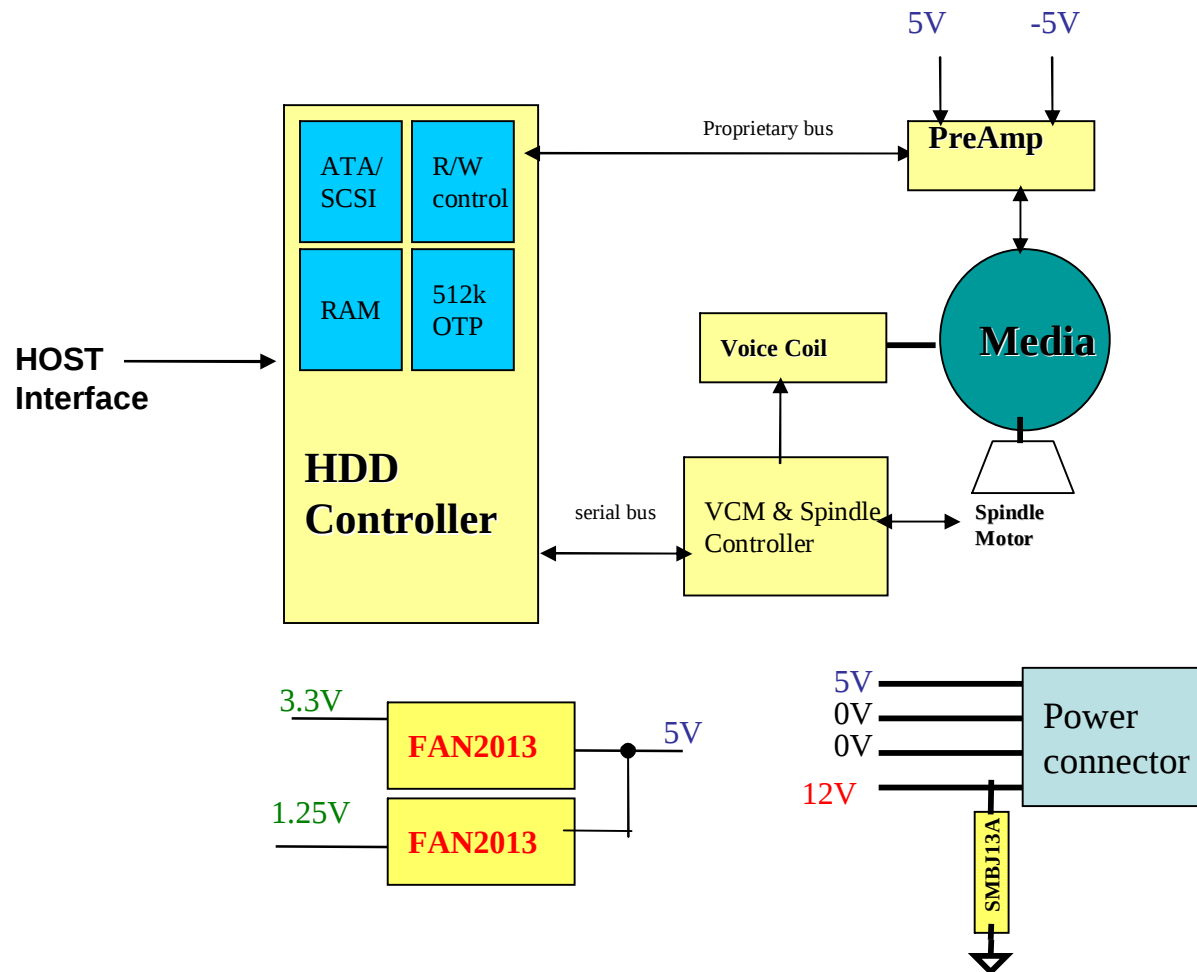


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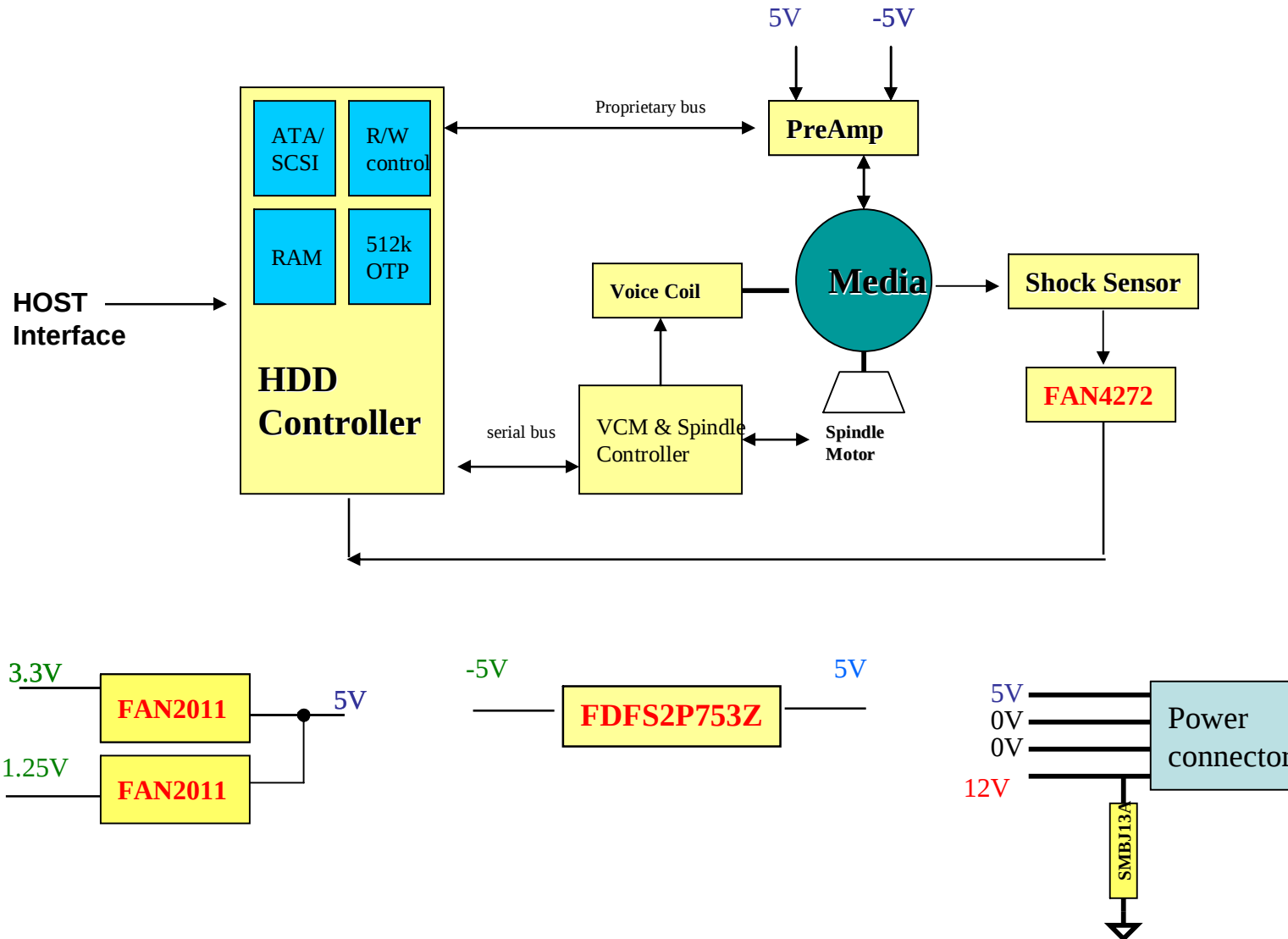
Portable/Mobile/Desktop HDD Application Block Diagram



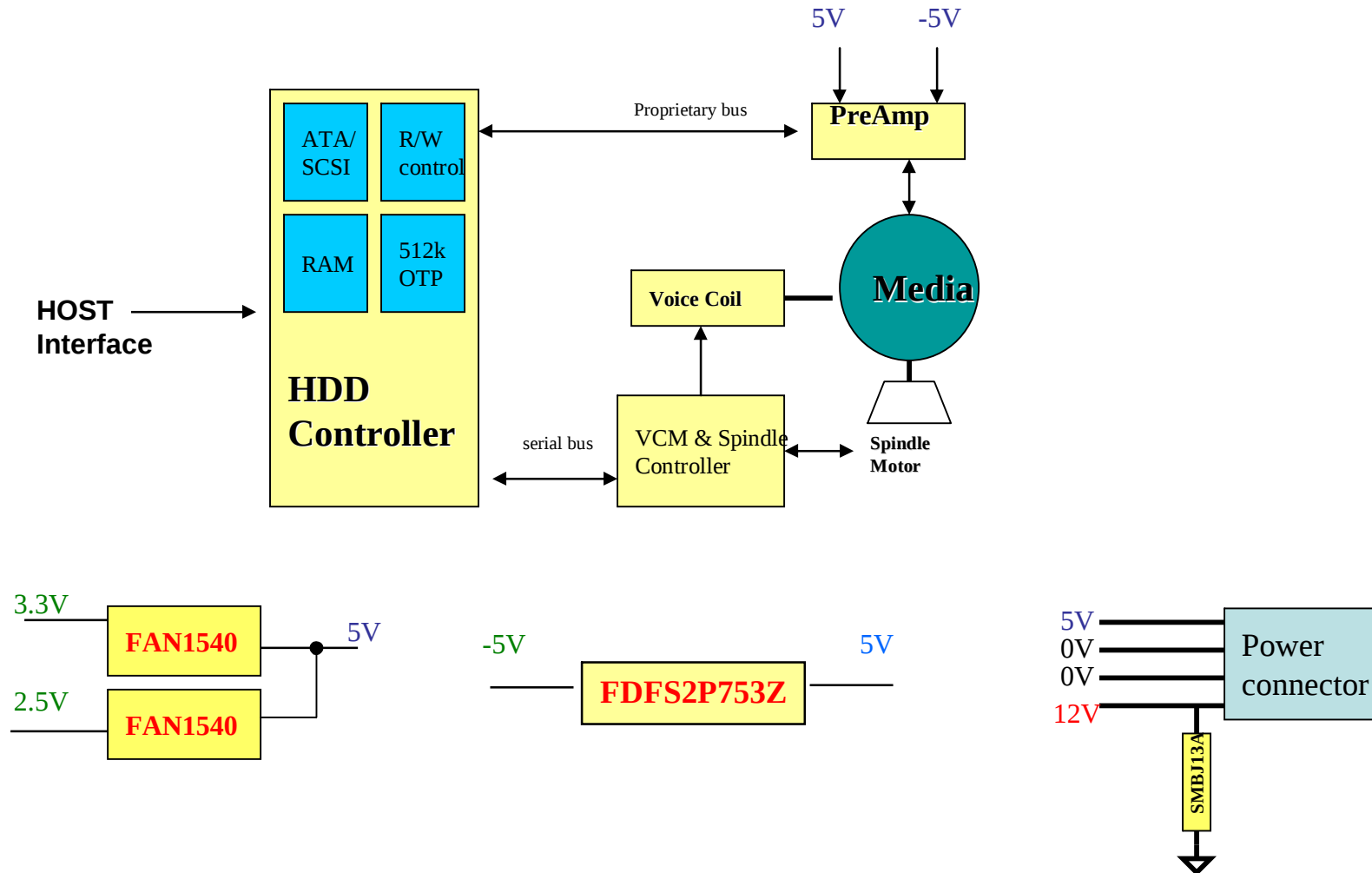
2.5 15K RPM HDD



3.5 SATA HDD for Server Application

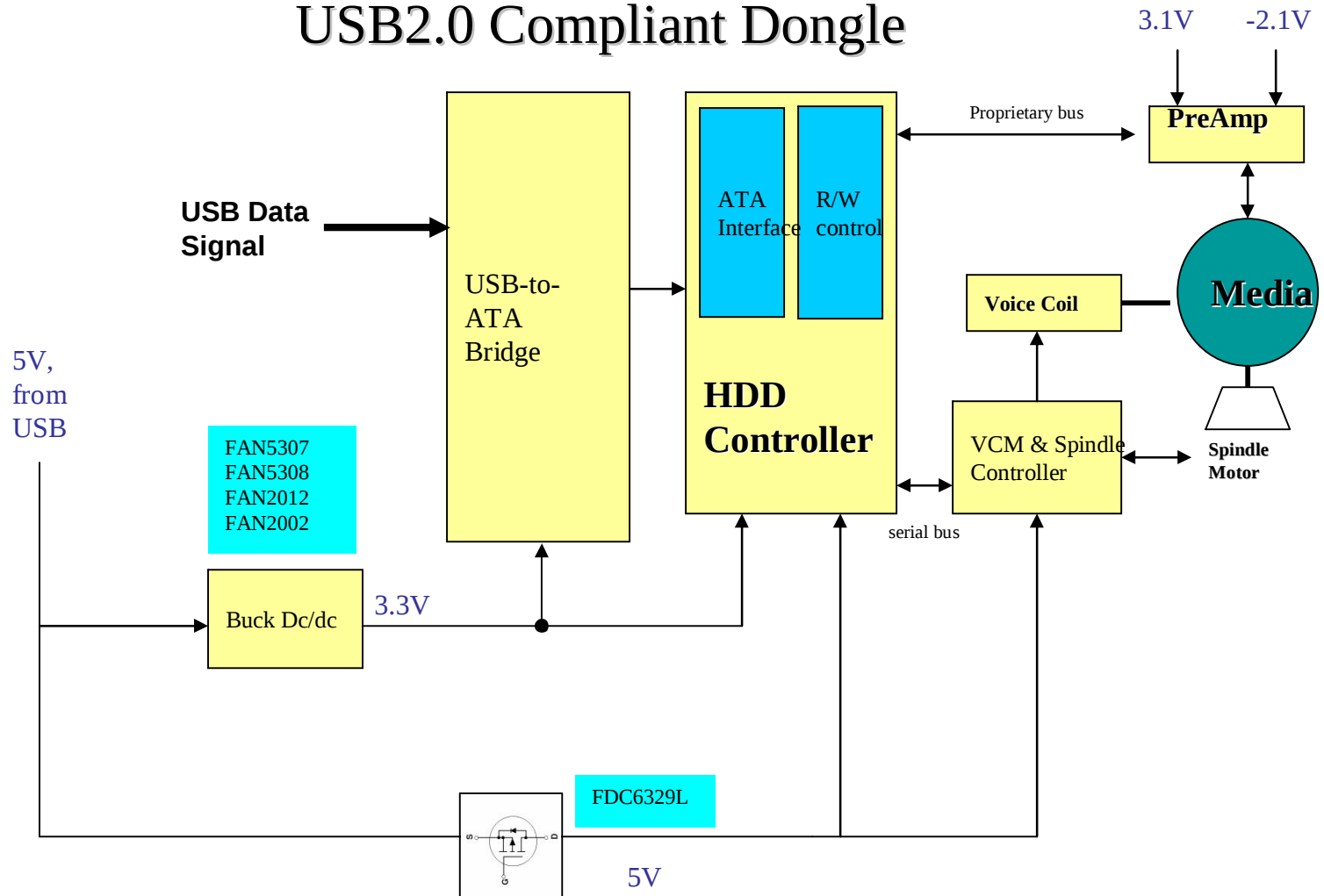


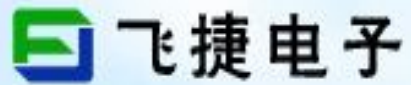
3.5 HDD for DVR



1.8j HDD Dongle

USB2.0 Compliant Dongle





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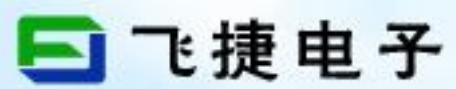
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Thank you

