

## Содержание

<b>Power</b> .....	3
Manufacturers .....	3
EDLC .....	3
LED Driver .....	3
POE .....	3
LDO .....	4
DCDC boost .....	4
DCDC buck .....	4
DCDC flyback .....	4
DCDC Controller .....	5
DC/DC (AC/DC) Convertor .....	5



## Power

MOSFET driver, MOSFET transistors

Vout	VREF	Rtop	Rbot	err, %	Vout
1.5V	0.6V	49K9	33K	0.47	1.51V
5V		10K	1K37	-0.41	4.98V
0.9V	0.8V				
1V		1K5	6K04	-0.13	0.999V
1.2V		1K5	3K	0	1.2V
1.8V		4K99	3K92	1.02	1.82V
2.5V		24K9	11K8	-0.47	2.49V
		4K7	2K2	0.36	2.51V
3.3V		4K7	1K5	0.2	3.31V
	24K9	7K87	0.94	3.33V	
5V	15K	2K8	1.71	5.09V	

<a href="https://www.st.com/content/st_com/en/support/resources/edesign.html">https://www.st.com/content/st_com/en/support/resources/edesign.html</a> <a href="https://eds.st.com/console/#/home">https://eds.st.com/console/#/home</a>	STmicroelectronics	eDesignSuite	online power designer
	TI		online power designer

## Manufacturers

Anpec	 china\taiwan	
Mikron	 russia	
consonance-elec		
injoinic		
korchip		EDLC

## EDLC

<a href="#">korchip</a>	EDLC
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## LED Driver

<https://www.platan.ru/cgi-bin/qweryv.pl/0w200154.html?view=list>

BPS	BP1361	Buck	5-30V	0.8A	<a href="https://doc.platan.ru/pdf/datasheets/BPS/BP1361.pdf">https://doc.platan.ru/pdf/datasheets/BPS/BP1361.pdf</a>	compel, platan
BPS	BP1360	Buck	5-30V	0.5A	<a href="https://doc.platan.ru/pdf/datasheets/BPS/BP1360.pdf">https://doc.platan.ru/pdf/datasheets/BPS/BP1360.pdf</a>	compel, platan

## POE

Page	Abbreviation	Description	Tags
<a href="#">poe</a>	POE	Power Over Ethernet	<a href="#">poe</a> , <a href="#">power</a> , <a href="#">ethernet</a>

## POE

## LDO

Page	Abbreviation	Description	Tags
ldo	LDO	Low DropOut regulator	power

0.6V Out LDO:

P\N	Mfg	Vin	Vout	Current	Link
WR0513	Wayon			0.5A	<a href="https://www.way-on.com/Product-Center/info-410.html">https://www.way-on.com/Product-Center/info-410.html</a>
WR0520	Wayon			0.5A	<a href="https://www.way-on.com/Product-Center/info-408.html">https://www.way-on.com/Product-Center/info-408.html</a>
WR1010	Wayon			1A	<a href="https://www.way-on.com/Product-Center/info-408.html">https://www.way-on.com/Product-Center/info-408.html</a>

## DCDC boost

link	ext	description	manufacturer	version	date	lang
<a href="#">FAIR-S-A0000507963-1.pdf</a>	pdf	<b>FAN48623</b> Onsemi (Fairchild) 2500 mA Boost DCDC with Bypass Mode	Onsemi (Fairchild)	rev. 1.7	2015.03	EN

## DCDC buck

<a href="#">FAN53200-D.PDF</a>	PDF	<b>FAN53200</b> Onsemi TinyBuck Regulator, Digitally Programmable, 5 A, 2.4 MHz	Onsemi	rev. 3	2020.05	EN
<a href="#">NCP1597B-D.PDF</a>	PDF	<b>NCP1597B</b> Onsemi Buck Regulator - Synchronous 1 MHz, 2 A	Onsemi	rev. 2	2019.08	EN
<a href="#">PAM2305.pdf</a>	pdf	<b>PAM2305</b> Diodes 1A STEP-DOWN DC-DC CONVERTER	Diodes	rev. 2-6	2013.01	EN
<a href="#">TCS4525_Ver.1.0.pdf</a>	pdf	<b>TCS4525</b> DCDC 5A 3MHz I2C (FAN53200UC35X analog)	TCS	v1	2015.05.26	EN

## DCDC flyback

	MPS	<a href="https://www.monolithicpower.com/how-to-design-a-flyback-converter-in-seven-steps">https://www.monolithicpower.com/how-to-design-a-flyback-converter-in-seven-steps</a>	
MP6004	MPS	<a href="https://www.monolithicpower.com/en/documentview/productdocument/index/version/2/document_type/Datasheet/lang/en/sku/MP6004/document_id/1864/">https://www.monolithicpower.com/en/documentview/productdocument/index/version/2/document_type/Datasheet/lang/en/sku/MP6004/document_id/1864/</a>	Designed for POE 13W, No optocoupler
MP6005	MPS	<a href="https://www.monolithicpower.com/en/documentview/productdocument/index/version/2/document_type/Datasheet/lang/en/sku/MP6005GK/">https://www.monolithicpower.com/en/documentview/productdocument/index/version/2/document_type/Datasheet/lang/en/sku/MP6005GK/</a>	No optocoupler
MP6001	MPS	<a href="https://www.monolithicpower.com/en/documentview/productdocument/index/version/2/document_type/Datasheet/lang/en/sku/MP6001/">https://www.monolithicpower.com/en/documentview/productdocument/index/version/2/document_type/Datasheet/lang/en/sku/MP6001/</a>	w optocoupler 15W
MP6002	MPS	<a href="https://www.monolithicpower.com/en/documentview/productdocument/index/version/2/document_type/Datasheet/lang/en/sku/MP6002/document_id/1135/">https://www.monolithicpower.com/en/documentview/productdocument/index/version/2/document_type/Datasheet/lang/en/sku/MP6002/document_id/1135/</a>	w optocoupler 30W

## DCDC Controller

NCP1589A	TPS51113	ISL6341, ISL6341C	300kHz
NCP1589B	TPS51163	ISL6341A, ISL6341B	600kHz

Vout	R2	C2	C1	R1	R3	C3	R4	I
5V	20K	3300PF	100PF	20K	240R	3300PF	3K65	6A?
3V3	2K2	0.22UF	3300PF	4K7	200R	3300PF		6A?

## DC/DC (AC/DC) Convertor

<a href="#">KP321XB.PDF</a>	PDF	<b>KP321XB</b> KIWI KP321XB series is a high-performance and low-cost PWM control function	KIWI	-	-	CN
<a href="#">MP9488.PDF</a>	PDF	<b>MP9488</b> MPS The MP9488 is a 7.5V to 450V, wide input, 300mA, step-down converter	MPS	rev. 1	2016.12	EN
<a href="#">BM2P129TF.PDF</a>	PDF	<b>BM2P129TF</b> ROHM The PWM type DC/DC converter for AC/DC This series has a built-in HV starter circuit that tolerates 650V/800V	ROHM	rev. 2	2017.04	EN
<a href="#">RAA223012.PDF</a>	PDF	<b>RAA223012</b> Renesas The RAA223012 is a universal input AC/DC switching buck regulator with ultra-low standby power that features a 700V integrated MOSFET capable of delivering up to 2.5W output power. It supports output voltage as low as 3.3V.	Renesas	rev. 3.01	2022.03	EN
<a href="#">AL17050.PDF</a>	PDF	<b>AL17050</b> Diodes The AL17050 is a universal AC high voltage input step down regulator Working with a single winding inductor and integrating a 500V	Diodes	rev. 2 - 2	2018.04	EN
<a href="#">BM2P1xxTF.PDF</a>	PDF	<b>BM2P1xxTF</b> ROHM The PWM type DC/DC converter for AC/DC This series has a built-in HV starter circuit that tolerates 650V/800V	ROHM	rev. 2	2017.04	EN
<a href="#">LSxx-K3BxxSS.PDF</a>	PDF	<b>LSxx-K3BxxSS</b> MORNSUN LSxx-K3BxxSS series is highly efficient green power AC-DC Converter series. It features wide input voltage range, accepting both DC and AC input voltage, high efficiency and low power consumption.	MORNSUN	A/3	2023.03	EN