



易冲半导体产品一览

CPS Product List



Product List – Wireless Power Rx

Part Number	RX Mode						TX Mode		SR			MainLDO		Digital		Package	
	Output power (W)	AC/VREC T AMR (V)	Vout max (V)	Iout max (A)	Current sensing	External VCC 5V	Max power (W)	Tx current sense	Rdson (mΩ)	Dummy load (mA)	Clamp FETs	Rdson (mΩ)	Vout step (mV)	Core	Memory	Size	Pin
CPS4035	30	30	20	1.5	Internal	supported	10	Internal	45	12.5~187.5 / 12.5	PCLAMP, ECLAMP	95	10.8	ARM M0	18k MTP/ 8k SRAM	2.8mm* 4mm	WLCSP-53
CPS4038	40	30	24	2	Internal	supported	10	Internal	45	12.5~187.5 / 12.5	PCLAMP	50	12.2	ARM M0	24k MTP/ 8k SRAM	2.8mm* 4mm	WLCSP-54
CPS4041	60	30	24	3	Internal	supported	20	Internal	30	12.5~187.5 / 12.5	PCLAMP, ECLAMP	30	12.2	ARM M0	32k MTP/ 6k SRAM	2.82mm* 4.22mm	WLCSP-53
CPS4035B	50	30	24	2.5	Internal	supported	10	Internal	45	12.5~187.5 / 12.5	PCLAMP, ECLAMP	50	12.2	ARM M0	24k MTP/ 8k SRAM	2.8mm* 4mm	WLCSP-53
CPS4047	40	30	24	2.5	Internal	supported	10	Internal	45	12.5~187.5 / 12.5	PCLAMP, ECLAMP	60	10.8	ARM M0	24k MTP/ 8k SRAM	3.3mm* 3.7mm	WLCSP-72
CPS4057	50	30	24	3	Internal	supported	15	Internal	30	12.5~187.5 / 12.5	PCLAMP, ECLAMP	35	12.2	ARM M0	32k MTP/ 8k SRAM	4.06mm* 4.47mm	WLCSP-110
CPS4067	80+	30	24	3	Internal	supported	20+	Internal	<20	12.5~187.5 / 12.5	PCLAMP, ECLAMP	<20	12.2	ARM M0	32k MTP/ 8k SRAM	4.79mm* 4.63mm	WLCSP-118
CPS4019	5	20	9	1.1	Internal	supported	-	-	80	5~150 / 5	N/A	80	20	8051	16k MTP/ 2k SRAM	2.1mm* 2.5mm	WLCSP-30
CPS4029	20	30	20	1.5	Internal	supported	10	Internal	45	12.5~187.5 / 12.5	PCLAMP	95	10.8	ARM M0	18k MTP/ 8k SRAM	2.8mm* 4mm	WLCSP-52
CPS4510	2	18	4.35 (vbatt.)	0.5 (CC)	Internal	-	-	-	300	50	-	400	Batt. charger	-	-	-	TSOT23-8

Product List – Wireless Power Tx

Part Number	Power stage and adapter protocols					De-mod, Q-factor, others				Digital		Package	
	VIN max (V)	VPA max (V)	Power Inverter	DC-DC Stage (for fixed freq.)	USB-PD	V/I ASK De-mod	Current Sensing	Q-factor	FAN power	Core	Memory	Size	Pin
CPS8100	24	26	4x external FETs	Internal buck/boost/byp ctrl., external FETs	supported	Ext. filter + coherent 4x ch. V/I, 16x internal ch.	External Rsns	Internal	Internal Buck, Up to 300mA	ARM M0	34k MTP 32k ROM 6k SRAM	6mm*6mm	QFN-48
CPS8200	24	45	4x external FETs	Internal buck/boost/byp ctrl., external FETs	supported	Ext. filter + coherent 4x ch. V/I, 16x internal ch.	External Rsns	Internal	Internal Buck, Up to 300mA	ARM M0	66k MTP 32k ROM 16k SRAM	6mm*6mm	QFN-48
CPS8500	19	12	Internal DrMOS 20mΩ	-	-	Ext. filter	External Rsns	Internal	-	-	-	2.5mm*3.5mm	QFN-20
CPS8600	24	14	Internal DrMOS 15mΩ	-	supported	Ext. filter	External Rsns	Internal	-	8051	32k OTP	3mm*4mm	QFN-24
CPS8510*	5.5	5.5	Internal DrMOS 70/40mΩ	-	-	I ASK	Internal	-	-	-	-	2mm*3mm	QFN-12

Remark

* CPS8510 is a proprietary mode Tx for CPS4510 charging only.

Product List – Source Controllers

Part Number	Port	Protocols	CC1/2 DP/DN voltage	CC/CV loop	Load switch	Current sense	VCONN Power	Feedback	VD (LPS)	Package
CPS8840	Source Type-C	PD3.0&PPS&QC	28V / 6.5V	√	NFET	High-side	√	Opto/FB	√	QFN-24 4mm*4mm
CPS8841	Source Type-C	PD3.0&PPS QC2.0/3.0 SCP/FCP	28V / 6.5V	√	NFET	High-side	√	Opto/FB	√	QFN-24 4mm*4mm
CPS8842B	Source Type-A	UFCS SCP/FCP QC2.0/3.0	28V / 6.5V	√	x	Low-side	x	Opto/FB	x	SSOP10 4.9mm*6mm
CPS8843	Source Type-C	UFCS PD3.0&PPS SCP/FCP QC2.0/3.0 D+/D- proprietary protocol	28V / 6.5V	√	NFET	High-side	x	Opto/FB	√	QFN-24 4mm*4mm

Product List – Sink and DRP

Part Number	Port	Protocols	CC1/2 DP/DN voltage	CC/CV loop	Load switch	Current sense	VCONN Power	Feedback	VD (LPS)	Package
CPS8852	DRP Type C/A	PD3.0&PPS&QC Optional DM DP Protocols	30V	x	x	x	v	I2C/PWM	x	QFN-32 4mm*4mm
CPS8851	DRP Type C	PD2.0/PD3.0/3.1 PHY with I ² C interface	24V	x	x	x	v	x	x	WLCSP-9 1.34mm*1.38mm
CPS8853	Sink	UFCS PHY with I ² C interface	6V	x	x	x	x	x	x	WLCSP-8 1.65mm*0.93mm

Product List – E-Marker

Part Number	Protocols	CC Voltage	VCONN Voltage	VCONN Power	Thunderbolt support	USB-IF TID	Package
CPS8829	PD3.0/PD2.0	33V	33V	2.75 -5.5 V	√	TID1156/XID8833	WLCSP-6 1.43mm*1.06mm
CPS8821A	USB 4.0 PD3.0/PD2.0	33V	33V	2.75 -5.5 V	√	TID4244/XID8836	DFN-6 2mm*2mm
CPS8821B	USB 4.0 PD3.0/PD2.0	33V	33V	2.75 -5.5 V	√	TID4244/XID8836	DFN-8 2mm*2mm
CPS8821C	USB 4.0 PD3.0/PD2.0	33V	33V	2.75 -5.5 V	√	TID4244/XID883	WLCSP-6 1.43mm*1.06mm
CPS8821D	USB 4.0 PD3.0/PD2.0	33V	33V	2.75 -5.5 V	√	TID4244/XID883	DFN-8 2mm*2mm
NEW CPS8821F	USB 4.0 PD3.1/雷电3	33V	33V	2.75 -5.5 V	√	TBD	DFN-8 2mm*2mm
CPS8821G	USB 4.0 PD3.1/雷电3	33V	33V	2.75 -5.5 V	√	TBD	WLCSP-6 1.43mm*1.06mm

Product List – Automotive Product

Part Number	Vin max (V)	VPA max (V)	Power Inverter	DC-DC Stage (for fixed freq.)	USB-PD	V/I ASK De-mod	Current Sensing	Q-factor	FAN power	Core	Memory	Package
CPSQ8100 (AEC-Q100)	24	26	4x external FETs	Internal buck/boost/byp ctrl., external FETs	supported	Ext. filter + coherent 4x ch. V/I, 16x internal ch.	External Rsns	Internal	Internal Buck, Up to 300mA	ARM M0	34k MTP 32k ROM 6k SRAM	QFN-48 6mm*6mm

Part Number	Port	Protocols	CC1/2 DP/DN voltage	CC/CV loop	Load switch	Current sense	VCONN power	Feedback	VD	Memory	Package
CPSQ8841 (AEC-Q100)	Source Type C	PD3.0&PPS Optional DM DP Protocols	30V / 6V	√	NFET	High-side	√	Opto/FB	√	16kB OTP + 32kB ROM	QFN-24 4mm*4mm

NEW	Part Number	Vin Range	Abs. Max Vin	Vout Range	Max Iout	MOSFETs	Topology	Freq. Range	I ² C Ctrl	Prog. VOUT	Output ILIM	Constant Current Mode	PFM	FPWM	Package
	CPSQ5206 (AEC-Q100)	3.8~36V	40V	2.0~36V	8A	external	Buck-boost	200kHz /400kHz /600kHz /800kHz	√	I ² C prog / ext. res	√	√	√	√	Side wettable QFN-28 5mm*5mm

Product List – Flyback Controllers

Part Number	Control Mode	Fsw_max	Standby	VDD_Max	HV_Start up	X-Cap Discharge	Jitter	GaN Driver	OTP	Package
CPS9001	ZVS Muti-Mode PWM/PFM	130KHz	35mW	42V	√	√	√	x	Ext-OTP	QFN-20 4mm*4mm
CPS9011	CCM/QR/DCM	130KHz	75mW	80V	x	x	√	x	Int-OTP	SOT23-6
CPS9008	CCM/QR/DCM	180KHz	35mW	80V	√	√	√	x	Ext-OTP	SSOP-10
CPS9010	CCM/QR/DCM	180KHz	35mW	80V	√	√	√	√	Ext-OTP	SSOP-10

Product List – SR Controllers

Part Number	Control Mode	Fsw_max	Green Mode Power	Break down Voltage (V)	Turn-on/off Delay	Output	High/Low side	Package
CPS9901	ZVS/CCM/QR/DCM	200KHz	<200uA	120V	12ns/12ns	3-25V	v	SOT23-6

Product List – Switching Charger

Part Number	Vin Range	Abs. Max Vin	Wireless Rx	Battery Cell #	Max Charge Current	Topology	Boost Voltage Range	Max Boost Current	Auto Load Detection	Hall/Key In Detection	I ² C Control	Prog. Ilim	ADC	NTC	Safety Timer	DPM	Shipping Mode	Other Feature	Package
CPS5211	4.4~5.5V	15V	√ 5W	1	1A	Buck		0.5A	√		√	I ² C or Res	10-bit	√	√	√		VBUS OVP/OCP Thermal Regulation LED Status indication	QFN-28 4.0 x 4.0mm
CPS5201	4.4~5.5V	30V		1	1.1A	Buck	4.5~5V	0.5A	√	Key In Detection	√	I ² C or Res	5-bit	√	√	√	√	VBUS OVP/OCP VBAT OVP Thermal Regulation LED Status indication	QFN-16 3.0 x 3.0mm

Product List – Switched-Cap Charger

Part Number	Vin Range	Abs. Max Vin	Vout Range	Max Iout	Topology	Support Bypass Mode	ADC Integrated	Other Feature	Package
CPS2020	4~24V	30V	4~12V	6A	4:2 Converter	√	-	With reverse 2:4 & 2:2 mode, Dual-input	WLCSP-36 2.59 x 2.79mm
CPS2021	3.3~12V	22V	3~5V	7A	2:1 Charger	√	√	SCP/UFCS PHY	WLCSP-36 2.73 x 2.73mm
CPS2011	3.3~12V	22V	3~5V	7A	2:1 Charger	√	√	UFCS PHY	WLCSP-36 2.73 x 2.73mm

Product List – Port Protection

Part Number	Vin Range	Abs. Max Vin	Ron	Max Iout	Surge	IEC ESD – Contact Discharge	IEC ESD – Air Gap Discharge	Key Features	Package
CPS5007	2.55~23V	29V	27.5mΩ	5.0A	±120V	±8kV	±15kV	RBP, RCP, Adj. OVP	WLCSP-15 1.54 x 2.56mm
CPS5016	4.0~5.5V	6.0V	35mΩ	3.3A	±180V	±8kV	-	RBP, RCP, Adj. CL	WLCSP-16 2.2 x 2.2mm
CPS5505	2.7~5.5V	24V	CC = 0.27Ω SBU = 4Ω	CC: 0.6A	CC/SBU: ±30V	CC/SBU: ±6kV	CC/SBU: ±8kV	OVP, Dead Battery mode	QFN-20L 3.0 x 3.0mm

Remark

- OVP - Overvoltage protection
- RCP - Reverse current protection
- RBP - Reverse blocking protection
- CL - Current limit

Product List – Load Switch

Part Number	VIN & VCC Range	Abs. Max of VCOIL		Abs. Max of VAC		Max Frequency of COIL, AC	Weak ON state	Ron	Max Iout	Package
		ON State	OFF State	ON State	OFF State					
CPS5010	2.4~5.5V	36V	±40V	36V	40V	1MHz	√	150mΩ	2.0A	WLCSP-16 1.66 x 1.66mm

Remark

* Only ESD Protection

Product List – DCDC

Part Number	Vin Range	Abs. Max Vin	Vout Range	Max Iout	IQ	Fsw	Interface	Control Mode	Other Feature	Package
CPS5333	4.5~30V	35V	0.6V~0.99*Vin	3A	100μA	750kHz	EN	COT	Force CCM mode, SCP with Hiccup Mode	TSOT23-6 2.8 x 2.9mm
CPS5333H	4.5~30V	35V	0.6V~0.99*Vin	3A	100μA	750kHz	EN	COT	Auto PFM mode, SCP with Hiccup Mode	TSOT23-6 2.8 x 2.9mm
CPS5336A	4.5~18V	20V	0.6V~0.99*Vin	6A	100μA	500kHz	EN	COT	Auto PFM mode, SCP with Hiccup Mode	TSOT23-6 2.8 x 2.9mm
CPS5336B	4.5~18V	20V	0.6V~0.99*Vin	6A	100μA	500kHz	EN	COT	Auto PFM mode, SCP with Hiccup Mode	TSOT23-6 2.8 x 2.9mm

Part Number	Vin Range	Abs. Max Vin	Vout Range	Max Iout	MOSFETs	Topology	Freq. Range	I ² C Ctrl	Prog. VOUT	Output ILIM	Constant Current Mode	PFM	FPWM	Package
CPSQ5206 (AEC-Q100)	3.8~36V	40V	2.0~36V	8A	external	Buck-boost	200kHz /400kHz /600kHz /800kHz	√	I ² C prog / ext. res	√	√	√	√	Side wettable QFN-28 5mm*5mm

Product List – Battery Protector

Part Number	Cell Number	Protection MOSFETs Position	Supported Protections					Current Consumption	OV Charge	Package
			OV	UV	COC	DOC	SC			
CPS5801	1	High-side	4.2V - 4.7V 5mV/step	2.05V - 3.3V 25mV/step	-99mV - -4mV 1mV/step	4mV - 99mV 1mV/step	20mV, 30mV, 40mV, 60mV, 90mV, 120mV, 160mV, 200mV	Active: < 8μA@Typ. Standby: < 0.1μA@Typ.	Disable	CSP-8 1.665mm*1.065mm
CPS5802	1	Low-side	3.5V - 4.7V 5mV/step	2.00V - 3.3V 25mV/step	-99mV - -4mV 1mV/step	4mV - 99mV 1mV/step	10mV -160mV 10mV/step	Active: < 2.5μA@Typ. Standby: < 0.1μA@Typ.	Disable or Enable	DFN-6L 1.57mm*1.9mm



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Thank You

