



Green your power, green the world



2024
Product Selection guide

TV / Monitor Total Solution				
Output Power (max.)	PFC Controller	PWM Controller	SR Controller	Remark
75W ~ 200W	LD7593X/LD7597X	LD5537B1/LD5537B5/ LD5537E1/LD5535E1	LD8526X/LD8528X	TV/Monitor 2-in-1/3-in-1 application
108W ~ 200W	LD7681	LD7781	NA	Dual Output Half-bridge LLC Solution
75W ~ 150W	LD7790/LD7791/LD7792		LD8526X/LD8528X	Integrated PFC and QR Flyback Solution
40W ~ 55W	NA	LD5537B1/LD5537B5/ LD5537E1/LD5535E1	LD8526X/LD8528X/ LD8926X*/LD8928X*	LD5537B1/LD5537B5:100kHz LD5537E1/LD5535E1:65kHz

* Integrated MOSFET

PD 3.1 EPR/SPR Total Solution				
Output Power (max.)	PWM Controller	SR controller	PD Controller	Remark
140W ~ 180W	LD7797X/LD7798X	LD8526X	LD6617	Extend Power Range
90W ~ 140W	LD7797X/LD7798X	LD8526X/LD8528X	LD6612/LD6615/LD6617	Standard Power Range/Extend Power Range
45 ~ 65W (HV Start)	LD5766X/LD5763X	LD8526X/LD8528X/ LD8926X*/LD8928X*	LD6612/LD6615/LD6935*	Standard Power Range
45 ~ 65W (LV Start)	LD5555X	LD8526X/LD8528X/ LD8926X*/LD8928X*		
30W	LD5523M1	LD8926X*/LD8928X*		
20W	LD9535C*	LD8926X*/LD8928X*		

* Integrated MOSFET

GaN Combo Total Solution				
Output Power (max.)	PWM Controller	SR controller	PD Controller	Remark
65W	LD966L*	LD8526X/LD8528X/ LD8926X*/LD8928X*	LD6612/LD6615/LD6935*	GaN FET Integrated Solution
45W	LD955K*	LD8526X/LD8528X/ LD8926X*/LD8928X*	LD6612/LD6615/LD6935*	

* Integrated MOSFET

Networking / Mobile Total Solution				
Output Power (max.)	PWM Controller	SR Controller	Remark	
24W ~ 65W	LD5523X	LD8526X/LD8528X/ LD8926X*/LD8928X*	SSR Solution	
18W ~ 24W	LD9534*/LD9535*	LD8926X*/LD8928X*		
24W ~ 65W	LD5523E4	LD8525F4	PSR Solution with Fast Dynamic Response	
18W ~ 24W	LD9174T2*/LD9174E2*	LD8923F2*/LD8925F2*		
24W ~ 45W	LD5523X2	LD8526S	PSR Solution	
18W ~ 24W	LD9175X*	LD8926X*/LD8928X*		
<15W	LD9164X*	LD8925F1*		

* Integrated MOSFET

LED Lighting Total Solution				
Output Power (max.)	PWM Controller	Secondary Controller	3 in 1 Flexible Dimming Processor	Remark
150W	LD7792S/N/O	LD8105/LD8115X	LD8116A/B/C/D/Q/QL	Two Stage, Low THDi, High PF, Flick free, 3in 1 Dimmable LED power application
90W	LD7830/LD7838	LD8105/LD8115X	LD8116A/B/C/D/Q/QL	Single Stage, Low THDi, High PF, 3 in 1 Dimmable LED power application
90W	LD7841/K/Q	Buck/Buck-Boost	LD8116A/B/C/D/Q/QL	Two Stage, Low THDi, High PF, Flick free, 3 in 1 Dimmable LED power application

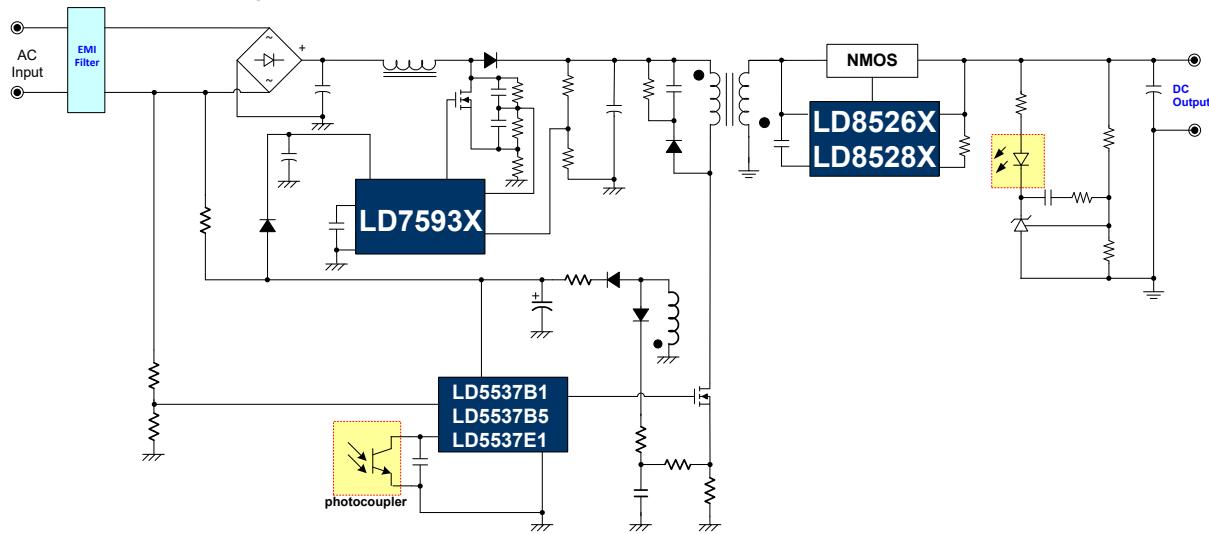
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TV/MNT Total Solutions

75~200W TV/MNT power application: TV/MNT 2-in-1 / 3-in-1 application

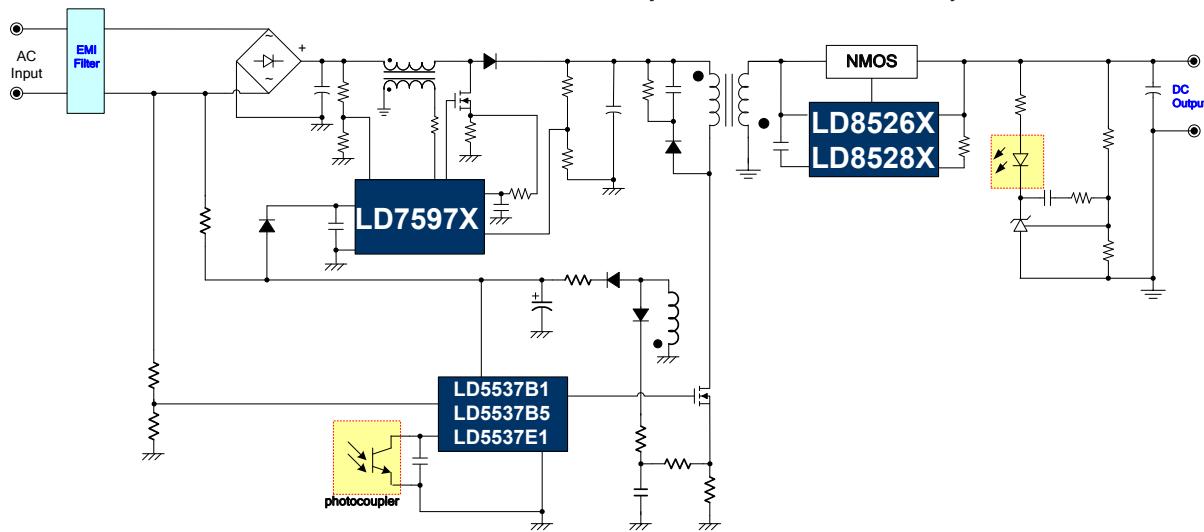
- CrM PFC + CCM/QR flyback controller
- PFC without aux. winding & dual OVP

- Less component counts
- Adjustable CS limit & OCP of flyback



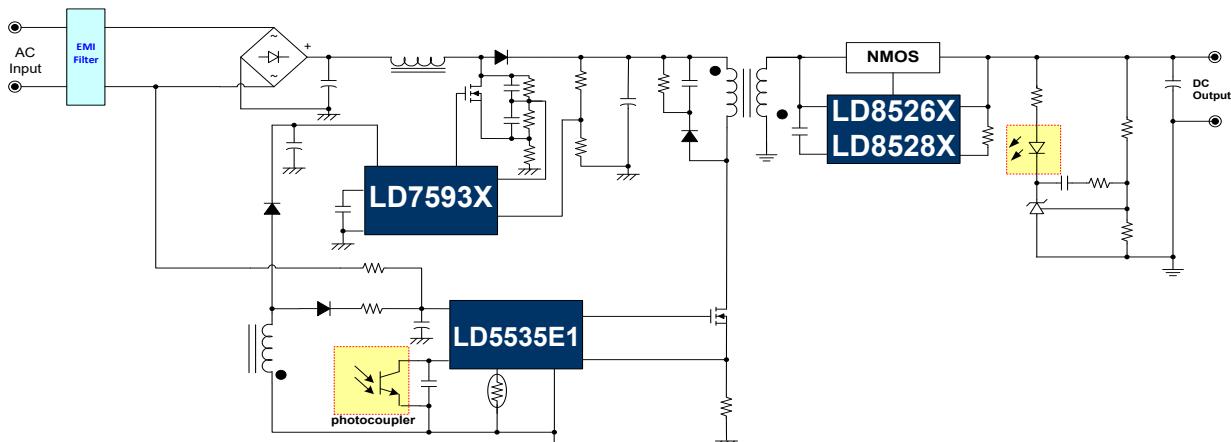
- CrM PFC + CCM/QR flyback controller
- Robust PFC Protection Function

- PFC Build-in THDi Enhancer
- Adjustable CS limit & OCP of flyback



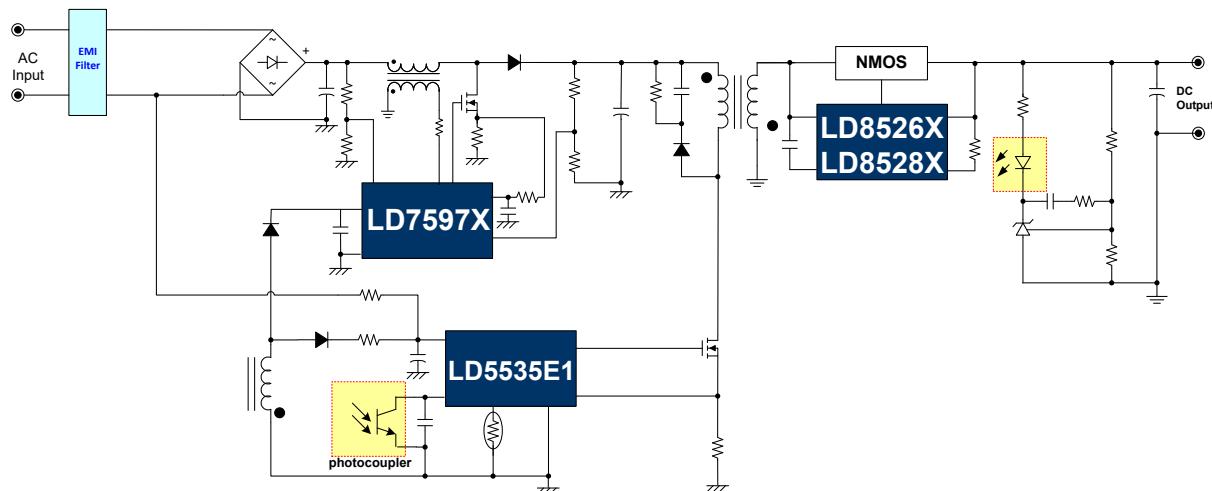
- CrM PFC+ SHB LLC controller
- Pin< 300mW @ Po=120mW

- Low standby acoustic noise
- AC BNI/O & X-CAP discharge



- CrM PFC + flyback controller
- Robust PFC Protection Function

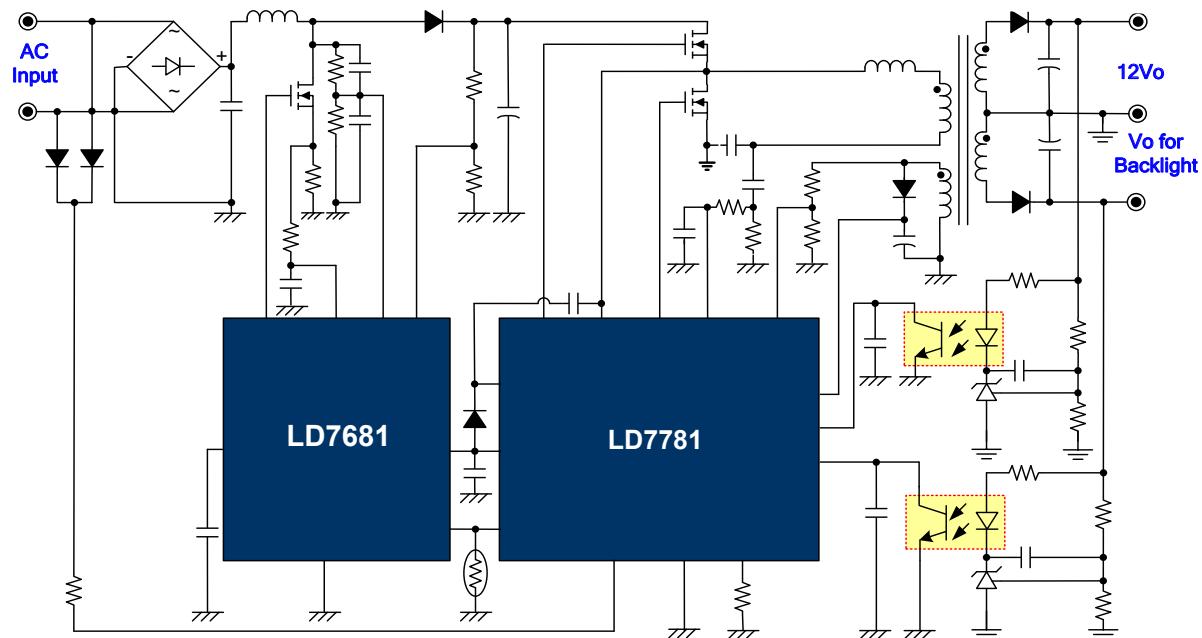
- PFC Build-in THDi Enhancer
- With Ext. OTP through a NTC of flyback



108~200W TV/MNT power application: Dual Output Half-bridge LLC Solution

- CrM PFC+ HB LLC controller
- Pin< 300mW @ Po=120mW

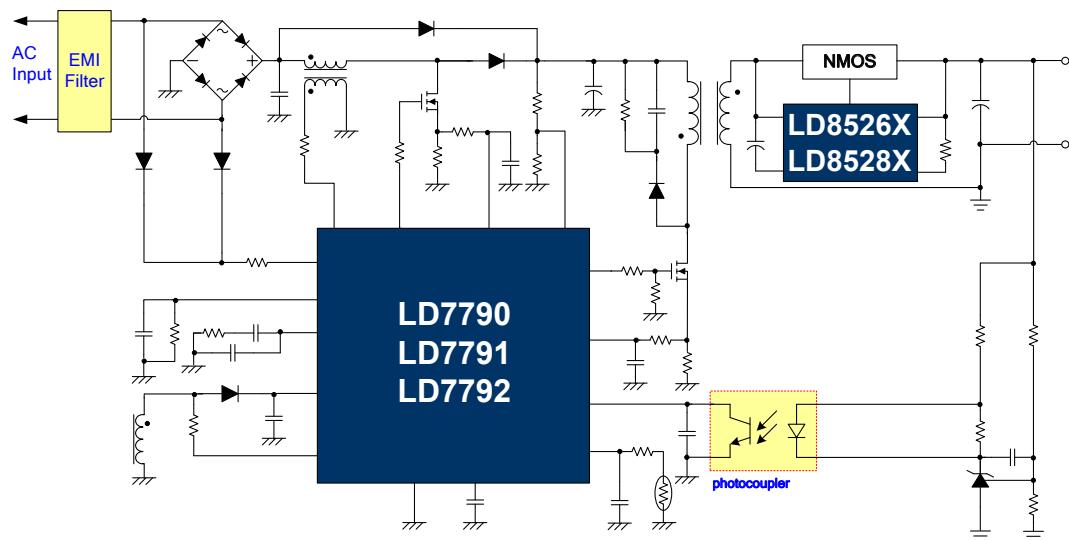
- Low standby acoustic noise
- AC BNI/O & X-CAP discharge



75~150W TV/MNT power application: Integrated PFC and QR Flyback Solution

- Built-in X-CAP Discharging
- Adjustment OLP De-bounce time

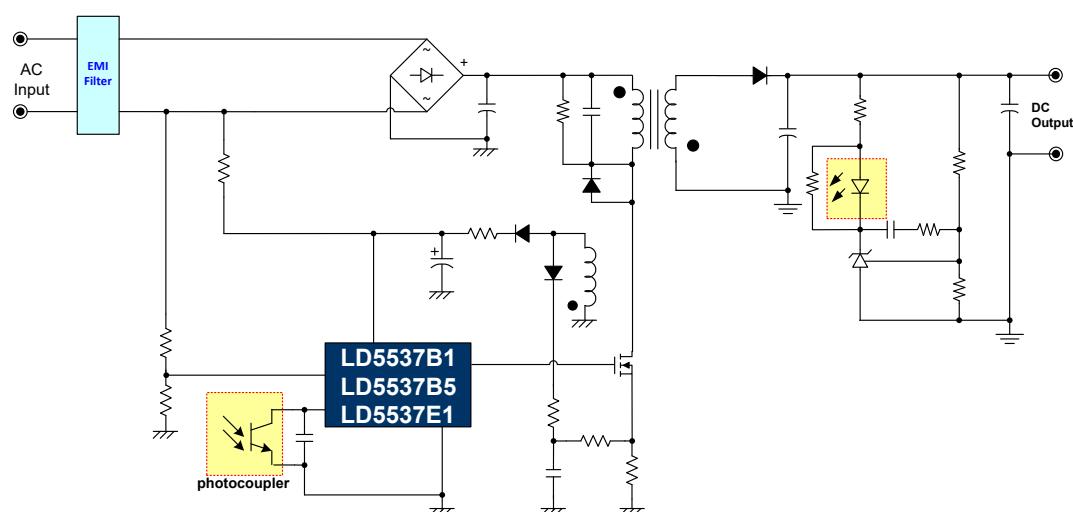
- External Latch Protection
- PFC Light Load Turn-off Control



40~55W TV/MNT power application: Total solutions for TV/MNT 3-in-1 application

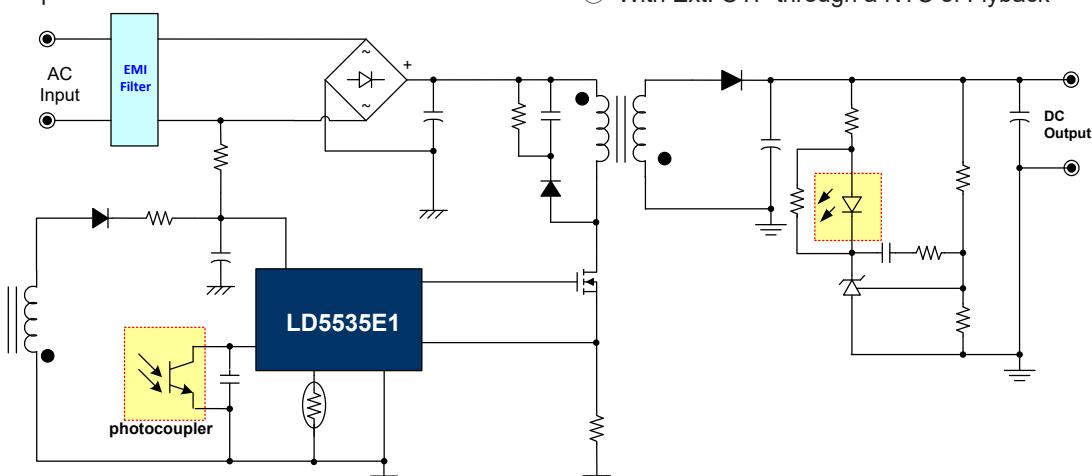
- Multi-Mode (QR+CCM) Controller
- Less components counts

- EMI-improved solution
- Adjustable OCP/BNO of Flyback



- Green Mode PWM Controller
- Less components counts

- EMI-improved solution
- With Ext. OTP through a NTC of Flyback

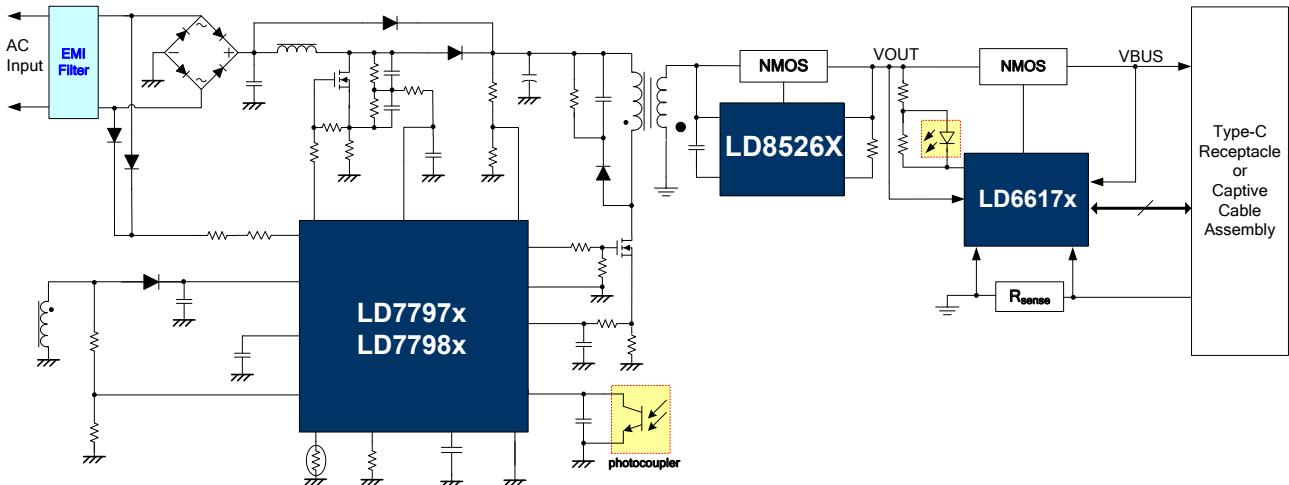


PD 3.1 EPR/SPR Total Solution

140~180W for USB-PD 3.1 Extend Power Range (EPR)

- 180V (LD7797X/D7798X) VIN max rating
- LD7797X to Drive E-Mode GaN

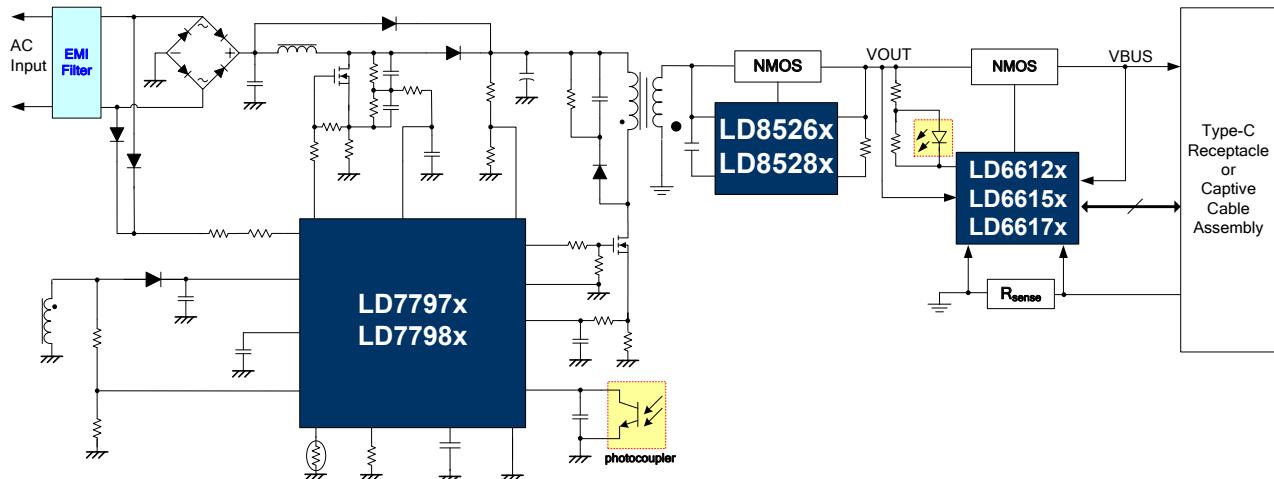
- Supports USB PD 3.1 SPR & EPR 28V/36V
- PFC ON/OFF Control (LD7797X/D7798X)



90~140W for USB-PD 3.1 Standard Power Range/Extend Power Range (SPR/EPR)

- 180V (LD7797X/D7798X) VIN max rating
- LD7797X to Drive E-Mode GaN

- Supports USB PD 3.1 SPR & EPR 28V (LD6617X)
- PFC ON/OFF Control (LD7797X/D7798X)



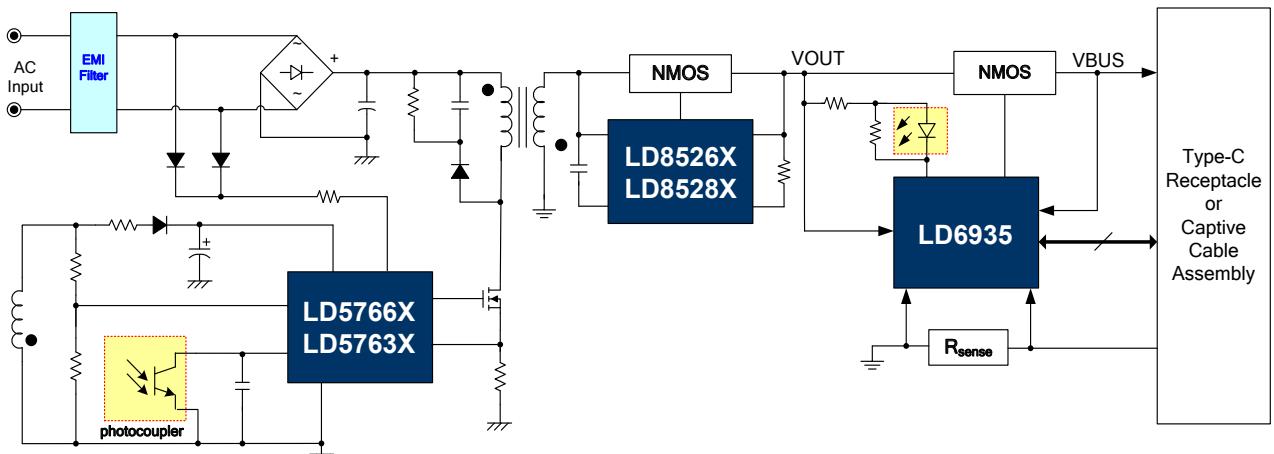
45~65W for USB-PD 3.1 SPR: High voltage start-up

- Total solution meet CoC Tier 2

- Smart stabilization system and high efficiency for USB-PD Application

- 83V Vcc rating

- Reduce the noise and improve EMI solution



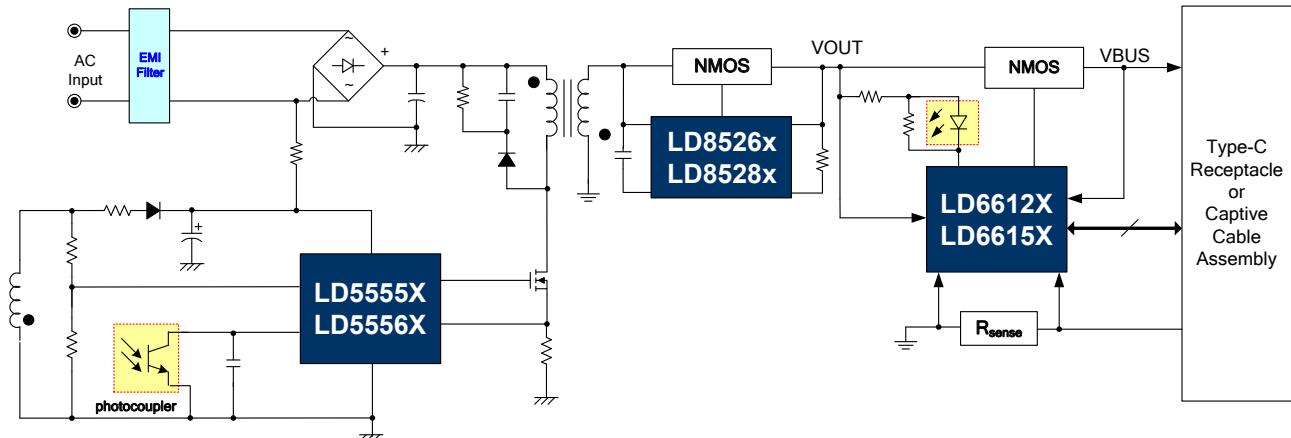
PD 3.1 EPR/SPR Total Solution

45~65W for USB-PD 3.1 SPR: Low voltage start-up

- Total solution meet CoC Tier 2
- Simple circuit design

- Multi-mode PWM control
- Self-supplying power for SR controller

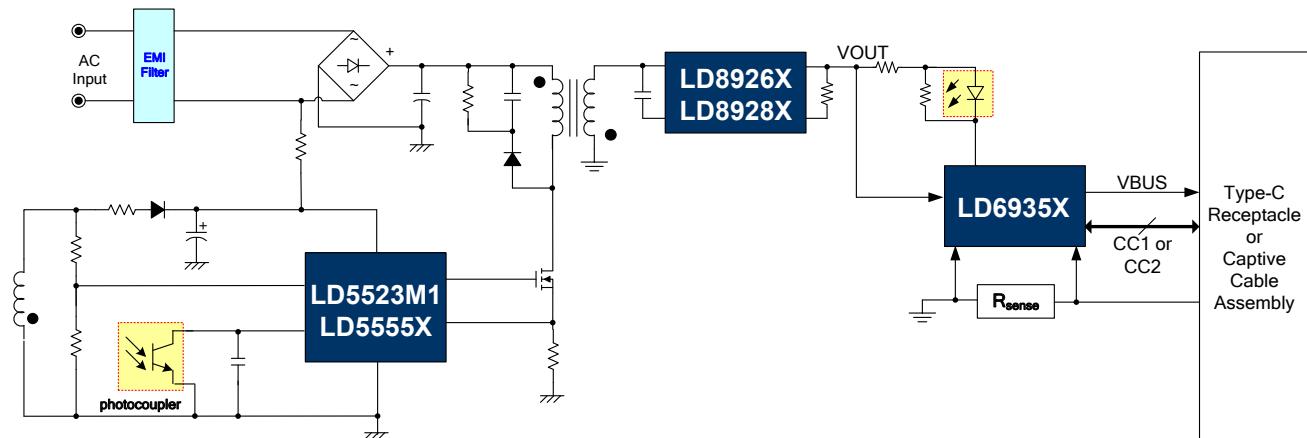
- LD5555E1/LD5556E1 to Drive E-Mode GaN



30W for USB-PD 3.1 SPR

- Total solution meet CoC Tier 2
- Simple circuit design

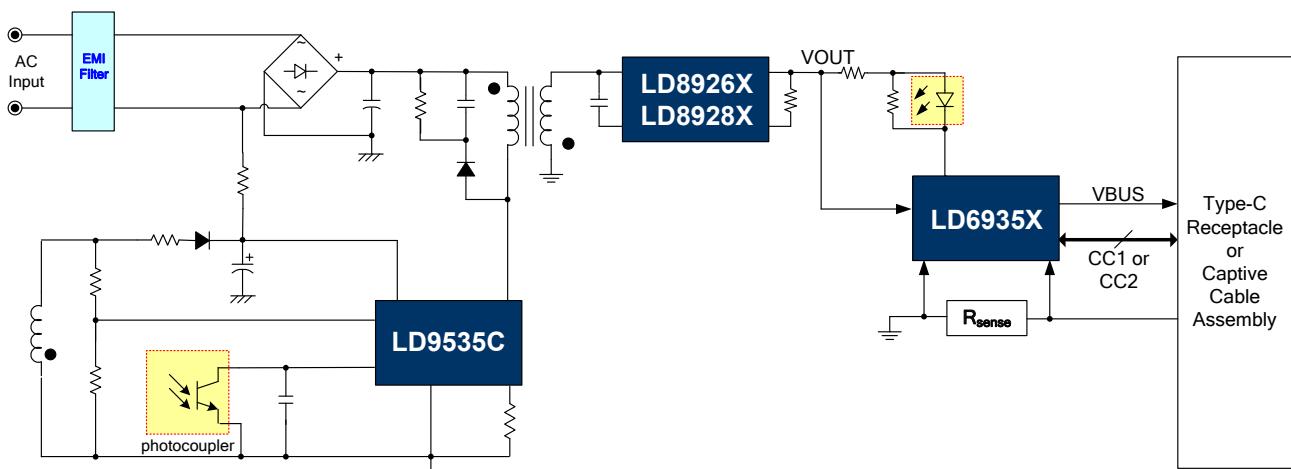
- Multi-mode PWM control
- Self-supplying power for SR controller



20W for USB-PD 3.1 SPR: SSR Dual Combo Solution

- Total solution meet CoC Tier2
- No load power consumption < 75mW

- Dual combo, simple circuit design
- Wide Vcc range

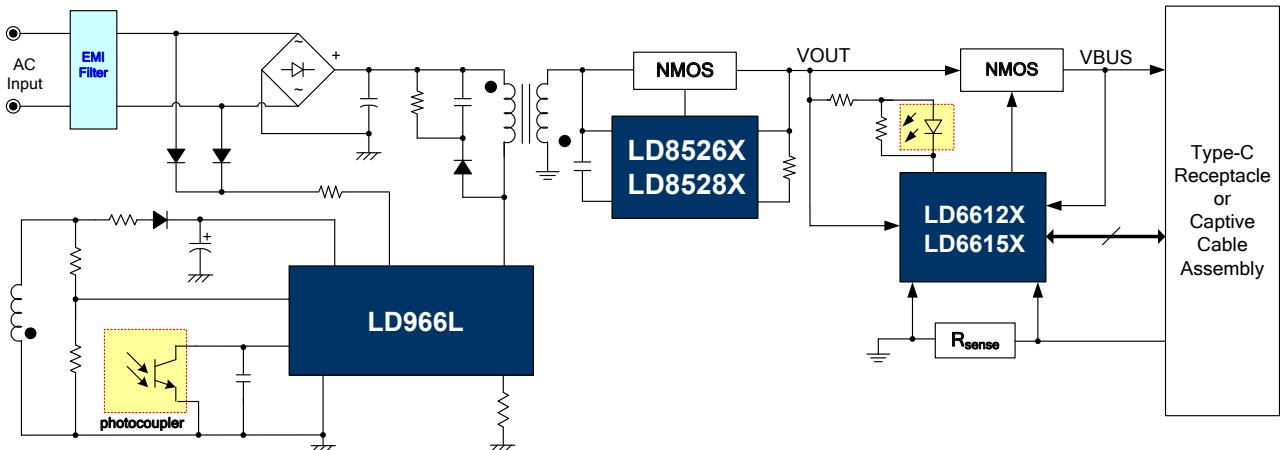


GaN Combo Total Solution

45~65W for USB-PD 3.1 SPR: SSR GaN Combo Solution

- ◎ Integrated 650V GaN FET
- ◎ Accurate LPS for All Vo ($\pm 8\%$)

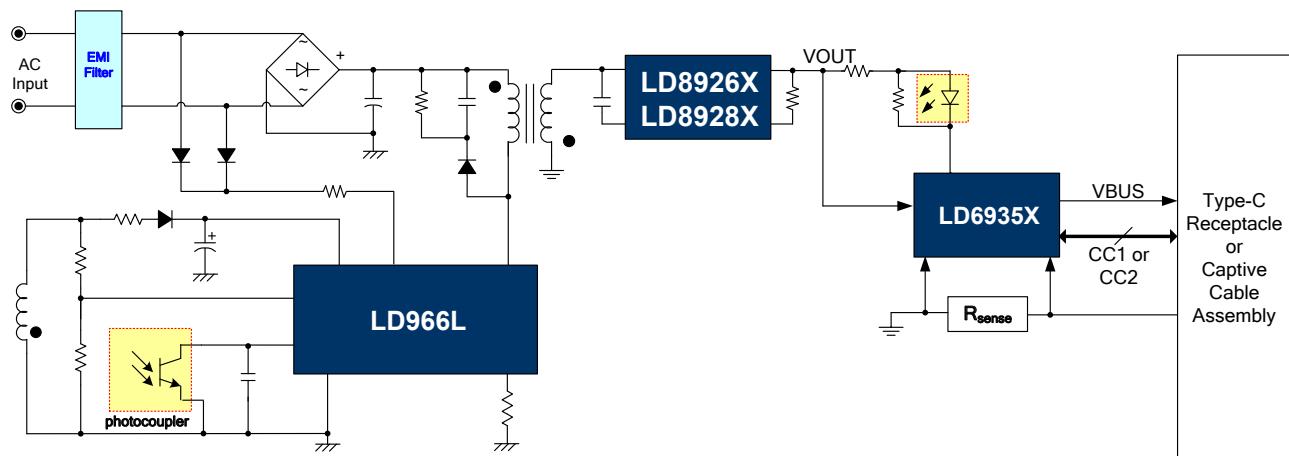
- ◎ Self-supplying power for SR controller
- ◎ Reduce the noise and improve EMI solution



45~65W for USB-PD 3.1 SPR: MOS Combo Total Solution

- ◎ MOS Combo Total Solution
- ◎ Accurate LPS for All Vo ($\pm 8\%$)

- ◎ Self-supplying power for SR controller
- ◎ Reduce the noise and improve EMI solution

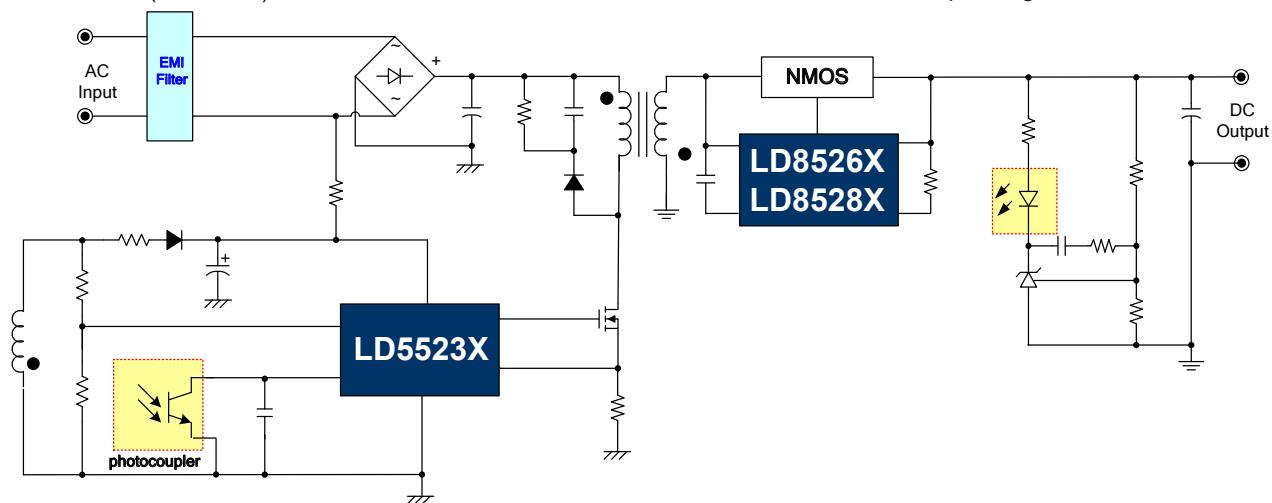


Networking Adapter Total Solutions

24W~65W adapter: SSR solution

- Output current =6A max
- Multi-mode (QR+CCM) controller

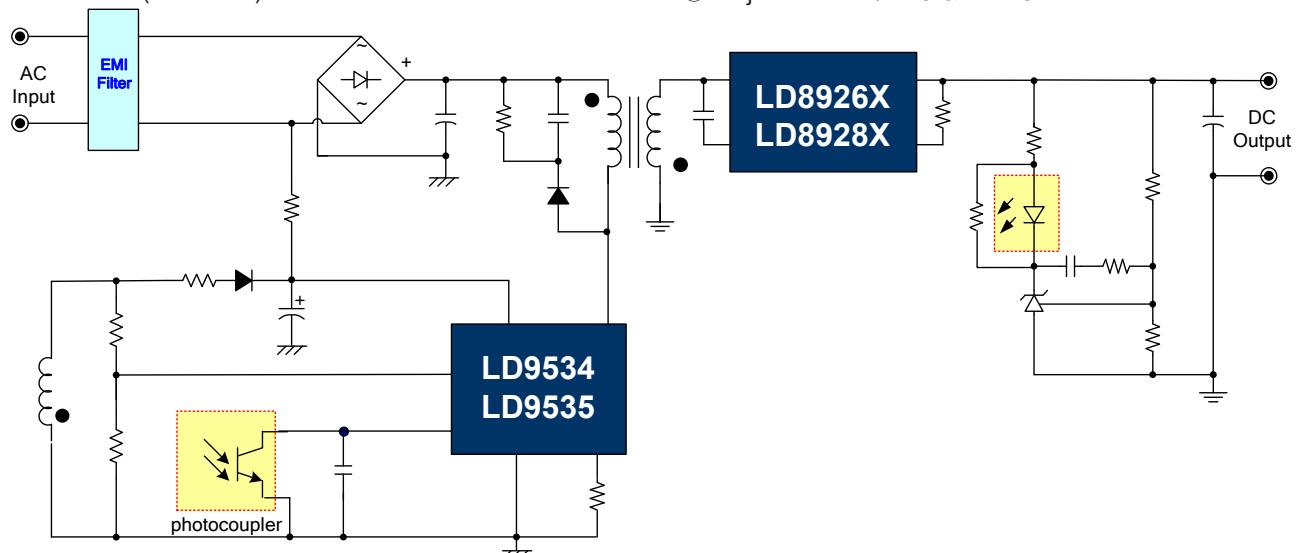
- Adjustable BNI/BNO & Bulk OVP
- 0.285mA Ultra-low operating current



18W~24W adapter: SSR dual combo solution

- Output current =3A max
- Multi-mode (QR+CCM) controller

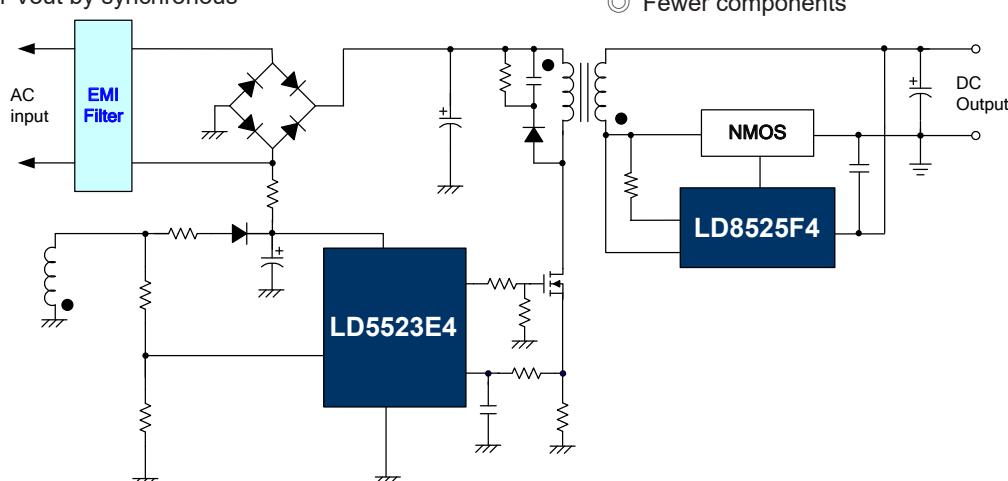
- Built-in 700V MOSFET switch
- Adjustable BNI/BNO & Bulk OVP



24W~65W adapter: PSR Solution with Fast Dynamic Response

- Multi-Mode (QR+CCM) controller
- Monitor Vout by synchronous

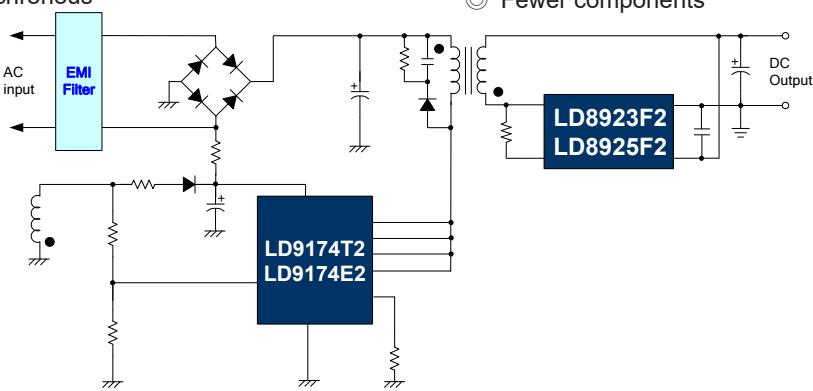
- Well dynamic response similar to SSR
- Fewer components



18W~24W adapter: PSR dual combo solution with Fast Dynamic Response

- Multi-Mode (QR+CCM) controller
- Monitor Vout by synchronous

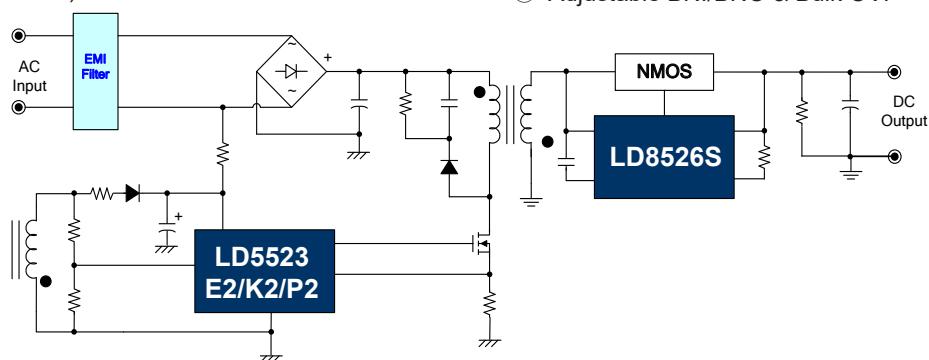
- Well dynamic response similar to SSR
- Fewer components



24W~45W adapter: PSR Solution

- Output current =6A max
- Multi-Mode (QR+CCM) controller

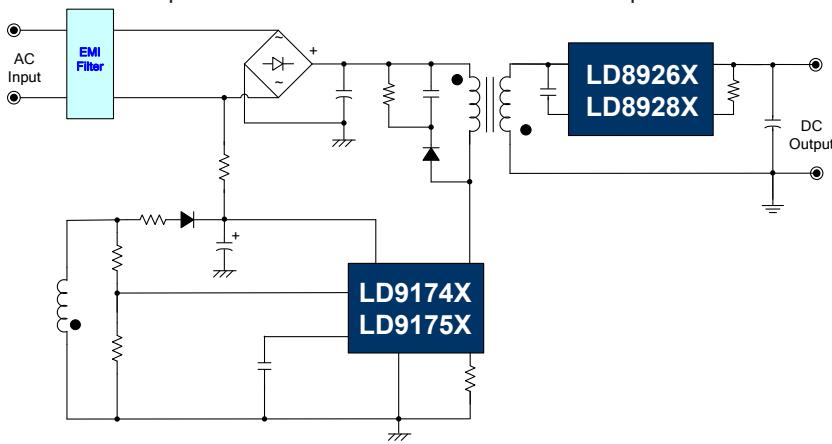
- EMI-improved solution
- Adjustable BNI/BNO & Bulk OVP



18W~24W adapter: PSR dual combo solution

- Multi-Mode (QR+CCM) controller
- Adjustable Brown in/out on FB pin

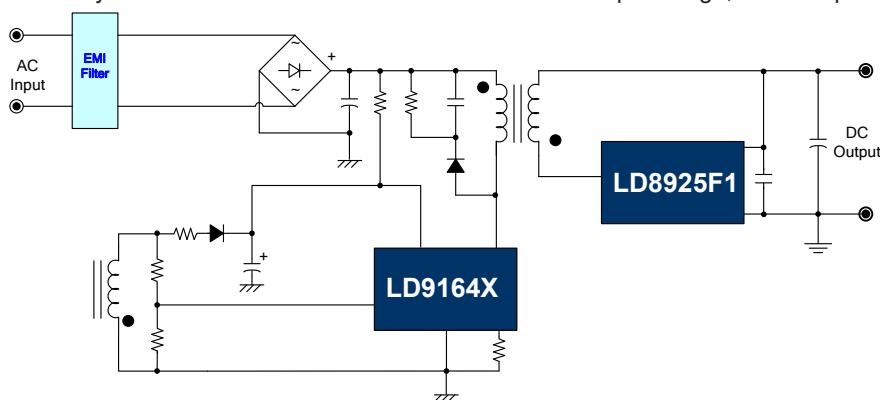
- Simple design, less component counts
- EMI-improved solution



<15W adapter: PSR dual combo solution

- Primary side quasi-resonant controller
- CV/CC operation of Flyback

- Up to 90KHz switching frequency
- Simple design, less component counts

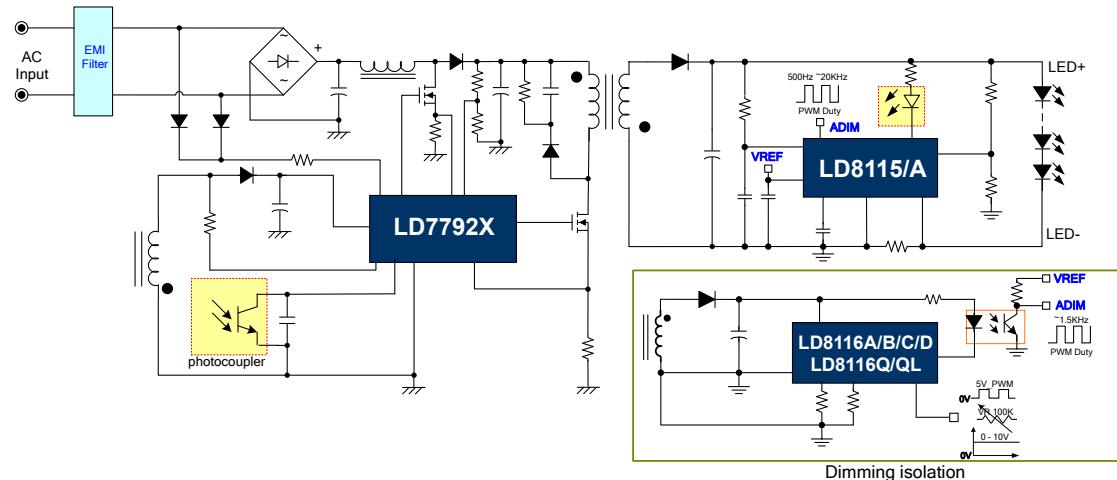


LED Lighting Total Solutions

60~150W LED lighting application: Two Stage, Low THDi, High PF, Flick free, 3in 1 Dimmable LED power module

- Fast Start-up ($T_s < 0.5s$)
- Active PFC integrated (PF > 0.90 and THDi < 10%)

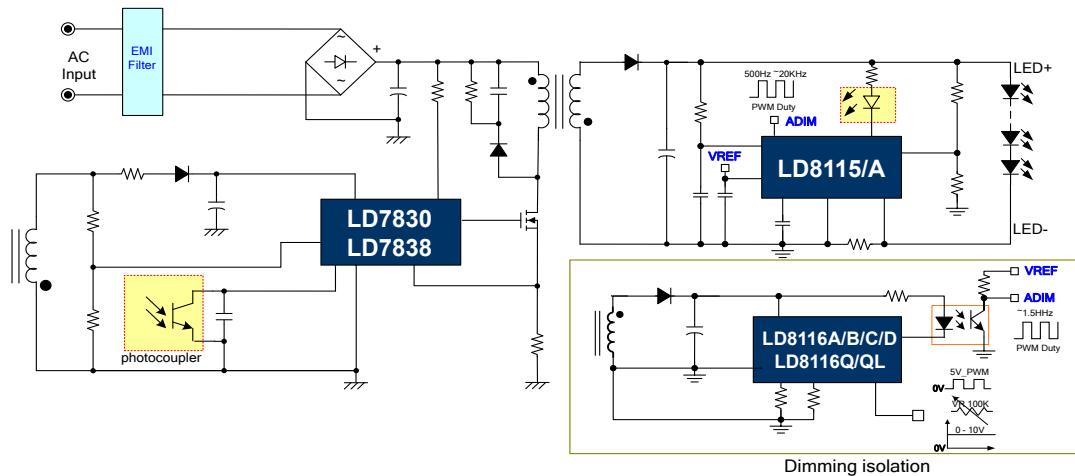
- High Efficiency (>90%)
- 0-10V/VR/PWM Dimming Control



25~90W LED lighting application: Single Stage, Low THDi, High PF, 3 in 1 Dimmable LED power module

- Fast Start-up ($T_s < 0.5s$)
- Active PFC integrated (PF > 0.90 and THDi < 10%)

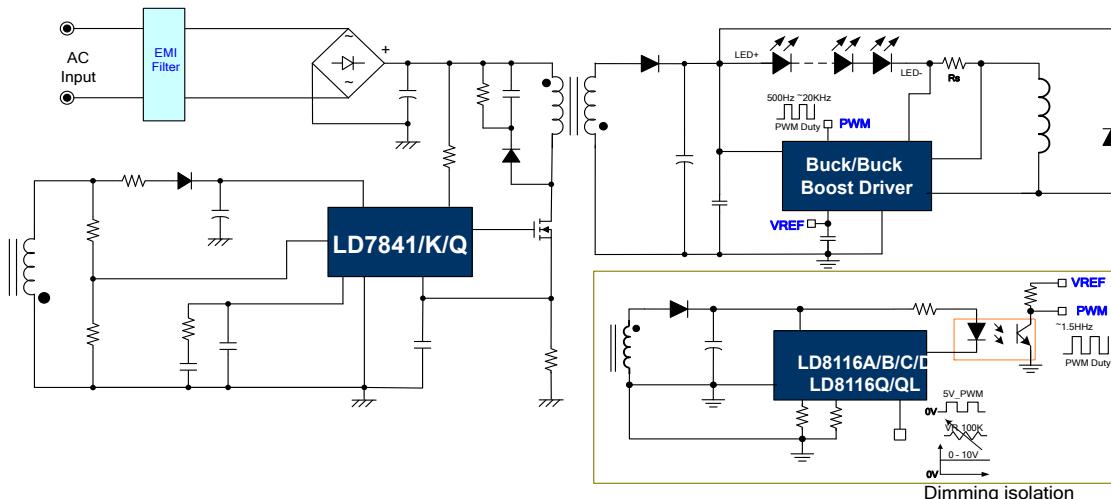
- High Efficiency (> 90%)
- 0-10V/VR/PWM Dimming Control



25~90W LED lighting application: Two Stage, Low THDi, High PF, Flick free, 3 in 1 Dimmable LED power module

- Fast Start-up ($T_s < 0.5s$)
- Active PFC integrated (PF > 0.90 and THDi < 10%)

- High Efficiency (> 89%)
- 0-10V/VR/PWM Dimming Control



PFC with QR Controller ⁽³⁾													
Part No.	HV Current Source for VCC Startup (mA)	UVLO OFF (V)	Driving Cap. (mA)	Switching Freq.(kHz)	Protection					LEB (ns)	Package	Application	
					OCP	OVP	OLP	Ext. OTP	BNO				
LD7790	3	8	500/-1200	250/85	Auto	Auto	Auto	Latch	Yes	250/350	SOP-16	TV, Monitor,Adaptor	
LD7791	3	8	500/-1200	250/85	Auto	Auto	Auto	Latch	Yes	250/350	SOP-16	TV, Monitor,Adaptor	
LD7791A	3	8	500/-1200	250/85	Auto	Latch	Auto	Latch	Yes	250/350	SOP-16	TV, Monitor,Adaptor	
LD7791B	3	8	500/-1200	250/85	Latch	Latch	Latch	Latch	Yes	250/350	SOP-16	TV, Monitor,Adaptor	
LD7791C	3	8	500/-1200	250/85	Auto	Latch	Auto	Auto	Yes	250/350	SOP-16	TV, Monitor,Adaptor	
LD7792	3	8	500/-1200	350/100	Auto	Auto	Auto	Latch	Yes	250/350	SOP-16	TV, Monitor,Adaptor	
LD7792E	3	8	500/-1200	350/100	Auto	Auto	Auto	Latch	Yes	250/350	SOP-16	TV, Monitor,Adaptor	
LD7797OD	3	8	15/-150 (PFC) 15/-150 (Flyback)	400/200	Auto	Latch	Auto	Latch	Yes	300/275	SOP-16	PD,Adaptor	
LD7797OG	3	8	15/-150 (PFC) 15/-150 (Flyback)	400/200	Auto	Latch	Auto	Latch	Yes	300/275	SOP-16	PD,Adaptor	
LD7798OD	3	8	550/-1000 (PFC) 350/-1000 (Flyback)	400/130	Auto	Latch	Auto	Latch	Yes	300/275	SOP-16	PD,Adaptor	
LD7798IG	3	8	550/-1000 (PFC) 350/-1000 (Flyback)	400/130	Latch	Latch	Latch	Latch	Yes	550/275	SOP-16	PD,Adaptor	

⁽³⁾ 這些產品具備X電容放電功能並通過安規認證(These products include X-capacitor discharge function with a CB certificate.)

Transition Mode PFC Controller												
Part No.	Start-Up (µA)	UVLO ON (V)	UVLO OFF (V)	Driving Cap. (mA)	Switching Freq.(kHz)	Protection				LEB (ns)	Package	Application
						OLP	OTP	BNO	OVP			
LD7591	30	12.0	8.5	800	Variable	-	Inter.(Auto)	-	Auto	250	SOP-8/ DIP-8	TV, Monitor
LD7591T	30	12.0	8.5	800	Variable	-	Inter.(Auto)	-	Auto	250	SOP-8/ DIP-8	TV, Monitor
LD7592	1	12.0	7.5	900	Variable	-	Inter.(Auto)	-	Auto	350	SOP-8/ DIP-8	TV, Monitor
LD7592S	1	12.0	7.5	900	Variable	-	Inter.(Auto)	-	Auto	350	SOP-8/ DIP-8	TV, Monitor
LD7593AA/A B	1	16.0	8.5	700	Variable	-	Inter.(Auto)	-	Auto	350	SOT-26	TV, Monitor
LD7597	1	12.0	7.5	+500/-800	Variable	-	Inter.(Auto)	Auto	Auto	300	SOP-8	LED Lighting
LD7597A	1	12.0	7.5	+500/-800	Variable	-	Inter.(Auto)	Auto	Auto	300	SOP-8	LED Lighting

Primary Side Regulator Controller													
Part No.	Power Switch	UVLO On/Off (V)	Control Topology	Protection				Power(W)	Operating Max Frequency (kHz)	Operating Green Mode Frequency (kHz)	Operating Min Frequency (kHz)	Package	Application
				Bulk OVP	VCC OVP	FB OVP	FB Open/Short						
LD5523A2	MOS	16.5 / 7.0	QR+CCM	-	Latch	Latch	Latch	>18	75	25	0.35	SOT-26	Networking
LD5523D2	MOS	16.5 / 7.0	QR+CCM	-	Auto	Auto	Auto	>15	75	25	0.35	SOT-26	Networking
LD5523E2	MOS	16.5 / 7.0	QR+CCM	-	Auto	Auto	Auto	>18	75	25	0.35	SOT-26	Networking
LD5523K2	MOS	16.5 / 7.0	QR+CCM	Auto	Auto	Auto	Auto	>18	75	25	0.35	SOT-26	Networking
LD5523P2	MOS	16.5 / 7.0	QR+CCM	-	Auto	Auto	Auto	>30	130	50	0.35	SOT-26	Networking
LD5523E4	MOS	16.5 / 7.0	QR+CCM	-	Auto	Auto	Auto	<65W	75	25	0.35	SOT-26	Networking

Primary Side Regulator Controller(MOS Combo)													
Part No.	UVLO On/Off (V)	Control Topology	Operating Max Frequency (kHz)	Operating Green Mode Frequency (kHz)	Operating Min Frequency (kHz)	Power(W)	Protection		MOS Integrated Specification			Package	Application
							BNO/BNI	Bulk OVP	Voltage Rating BVDSs(V)	Current Rating ID(A)	Ron,typ (Ω)		
LD9162C	16.0 / 7.0	CC/CV+QR	75	25	0.7	~10	-	-	650	2	4.5	SOP-8	Charger, Networking
LD9162K	16.0 / 6.5	QR+DCM	80	25	1.5	~10	-	-	650	2	4.5	SOP-8	Networking
LD9164C	16.0 / 7.0	CC/CV+QR	90	25	0.35	~12	-	-	650	4	2.4	SOP-8/DIP-8	Charger, Networking
LD9174	16.5 / 7.0	QR+CCM	75	25	0.35	~18	-	-	650	4	1.4	SOP-7/SOP-8	Networking
LD9174E2	16.5 / 7.0	QR+CCM	75	25	0.35	~24	Yes	-	650	4	1.4	SOP-8	Networking
LD9174N2	16.5 / 7.0	QR+CCM	75	25	0.35	~18	Yes	-	650	4	2.2	SOP-8	Networking
LD9174T2	16.5 / 7.0	QR+CCM	75	25	0.35	~18	Yes	-	650	4	2.2	SOP-8	Charger
LD9174K	16.5 / 7.0	QR+CCM	75	25	0.35	~18	Yes	Yes	650	4	2.5	DIP-8	Networking
LD9174N	16.5 / 7.0	QR+CCM	75	25	0.535	~18	-	-	650	4	1.4	SOP-8	Networking
LD9175N	16.5 / 7.0	QR+CCM	75	25	0.35	~24	Yes	-	650	4	1.4	SOP-8/DIP-8	Networking

Selection Guide

Isolated Green Mode												
Part No.	Start-Up (μ A)	UVLO OFF (V)	Driving Cap. (mA)	Switching Freq.(kHz)	Protection					LEB (ns)	Package	Application
					OCP	OVP	OLP	Ext. OTP	BNO			
LD5523	1	7.0	350/-355	65	Auto	Latch	Auto	Latch	Yes	275	SOT-26/ DIP-8	Networking,Adaptor
LD5523B	1	7.0	350/-355	100	Auto	Auto	Auto	Auto	Yes	275	SOT-26/ DIP-8	Networking,Adaptor
LD5523C	1	7.0	350/-355	100	Latch	Latch	Latch	Latch	Yes	275	SOT-26/ DIP-8	Networking,Adaptor
LD5523D	1	7.0	350/-355	65	Auto	Auto	Auto	Auto	Yes	275	SOT-26/ DIP-8	Networking,Adaptor
LD5523E	1	7.0	350/-355	65	Auto	Auto	Auto	Auto	Yes	275	SOT-26/ DIP-8	Networking,Adaptor
LD5523E1	1	7.0	350/-355	65	Auto	Auto	Auto	Auto	Yes	275	SOT-26/ DIP-8	Networking,Adaptor
LD5523H	1	7.0	350/-355	65	Auto	Latch	Latch	Latch	Yes	275	SOT-26/ DIP-8	Networking,Adaptor
LD5523J	1	7.0	380/-450	65/130	Latch	Latch	Latch	Latch	Yes	275	SOT-26/ DIP-8	Networking,Adaptor
LD5523K	1	7.0	350/-355	65	Auto	Auto	Auto	Auto	Yes	275	SOT-26/ DIP-8	Networking,Adaptor
LD5523L	1	7.0	380/-450	65/130	Latch	Latch	Latch	Latch	Yes	275	SOT-26/ DIP-8	Networking,Adaptor
LD5523M1	1	6.3	190/-150	65/130	Latch	Latch	Latch	Latch	Yes	400	SOT-26	PD/QC,Adaptor
LD5523N	1	7.0	350/-355	65	Auto	Auto	Auto	Auto	Yes	275	SOT-26/ DIP-8	Networking,Adaptor
LD5523P	1	7.0	380/-450	65/130	Auto	Latch	Auto	Latch	Yes	275	SOP-8/ DIP-8	Networking,Adaptor
LD5523Q	1	7.0	380/-450	65/130	Auto	Auto	Auto	Auto	Yes	275	SOP-8/ DIP-8	Networking,Adaptor
LD5523T	1	7.0	190/-250	65	-	Auto	Auto	Latch	Yes	250	SOT-26	Networking,Adaptor, PD/QC
LD5530R ⁽⁴⁾	1	7.5	250/-500	65	Auto	Auto	Auto	Latch	-	300	SOT-26/ DIP-8	Networking,Adaptor
LD5535A1	1	7.5	255/-500	65	Auto	Auto	Auto	Latch	-	200	SOT-26	TV, Monitor
LD5535E1	1	7.5	255/-500	65	Auto	Auto	Auto	Auto	-	200	SOT-26	TV, Monitor
LD5536R	1	7.5	250/-500	130	Auto	Auto	Auto	Latch	-	200	SOT-26	Monitor
LD5537B1	1	7.0	350/-355	100	Auto	Auto	Auto	-	Yes	200	SOT-26/ DIP-8	TV, Monitor
LD5537B5	1	7.0	210/-350	100	Latch	Auto	Auto	Auto	Yes	200	SOT-26	Monitor
LD5537E1	1	7.0	380/-450	65	Auto	Auto	Auto	-	Yes	200	SOT-26/ DIP-8	TV, Monitor
LD5537G1	1	7.0	250/-500	65/130	Auto	Auto	Auto	-	Yes	200	SOT-26/ DIP-8	Monitor
LD5537H1	1	7.0	350/-355	65	Latch	Latch	Latch	-	Yes	200	SOT-26/ DIP-8	Monitor
LD5537I1	1	7.0	350/-355	100	Latch	Latch	Latch	-	Yes	200	SOT-26/ DIP-8	Monitor
LD5538	1	7.5	300/-500	65/130	Auto	Latch	Auto	Latch	-	220	SOT-26	Networking,Adaptor
LD5555A	1	7.5	250/-500	65	Auto	Latch	Auto	Latch	Yes	310	SOT-26	PD/QC,Adaptor
LD5555E	1	7.5	250/-500	65	Auto	Auto	Auto	Auto	Yes	310	SOT-26	PD/QC,Adaptor
LD5555H	1	7.5	250/-500	65	Latch	Latch	Latch	Latch	Yes	310	SOT-26	PD/QC,Adaptor
LD5555K	1	7.5	250/-500	80	Auto	Latch	Auto	Latch	Yes	310	SOT-26	PD/QC,Adaptor
LD5555L	1	7.5	250/-500	65/130	Latch	Latch	Latch	Latch	Yes	310	SOT-26	PD/QC,Adaptor
LD5555M	1	7.5	250/-500	130/65	Auto	Latch	Auto	Latch	Yes	310	SOT-26	PD/QC,Adaptor
LD5555P	1	7.5	250/-500	65/130	Auto	Latch	Auto	Latch	Yes	310	SOT-26	PD/QC,Adaptor
LD5555Q	1	7.5	250/-500	65/130	Auto	Auto	Auto	Auto	Yes	310	SOT-26	PD/QC,Adaptor
LD5555K1	1	7.5	250/-500	80	Auto	Latch	Auto	Latch	Yes	310	SOT-26	PD/QC,Adaptor
LD5555M1	1	7.5	250/-500	130/65	Auto	Latch	Auto	Latch	Yes	310	SOT-26	PD/QC,Adaptor
LD5556A1	1	7.5	250/-500	200	Auto	Latch	Auto	Latch	Yes	310	SOT-26	PD/QC,Adaptor
LD5556K1	1	7.5	250/-500	200/82	Auto	Latch	Auto	Latch	Yes	310	SOT-26	PD/QC,Adaptor
LD7531	20	10.0	300	65	Auto	Auto	Auto	-	-	190	SOT-26/ DIP-8	Networking,Adaptor
LD7536E	20	8.5	300	65	Auto	Auto	Auto	Auto	-	230	SOT-26/ DIP-8	Networking,Adaptor
LD7536R	20	8.5	300	65	Auto	Auto	Auto	Latch	-	230	SOT-26/ DIP-8	Networking,Adaptor
LD7536S	20	8.5	300	65	Auto	Auto	Auto	Latch	-	230	SOT-26/ DIP-8	Networking,Adaptor
LD7537R	20	8.5	300	65	Auto	Auto	Auto	-	Yes	230	SOT-26/ DIP-8	Networking,Adaptor
LD7538R	14	7.5	250/-500	65	Auto	Auto	Auto	Latch	-	230	SOT-26/ DIP-8	Networking,Adaptor

Isolated Green Mode(MOS Combo)

Part No.	Start-Up (μ A)	UVLO OFF (V)	Switching Freq.(kHz)	Protection					LEB (ns)	MOS Integrated Specification			Package	Application
				OCP	OVP	OLP	Ext. OTP	BNO		Voltage Rating BVDS(V)	Current Rating ID(A)	Ron.typ (Ω)		
LD9532	1	7.5	65	Auto	Auto	Auto	-	Yes	450	650	2	4.25	DIP-8	Networking,Adaptor
LD9534	1	7.5	65	Auto	Auto	Auto	-	Yes	450	650	4	2.15	DIP-8	Networking,Adaptor
LD9535	1	7.5	65	Auto	Auto	Auto	-	Yes	450	650	4	1.2	DIP-8	Networking,Adaptor
LD9535C	1	6.0	65	Auto	Auto	Auto	-	Yes	450	650	4	1.2	SOT-8	Networking,Adaptor, PD/QC
LD9535K	1	7.0	65	Auto	Auto	Auto	-	Yes	450	650	4	1.4	DIP-8	Networking,Adaptor, PD/QC
LD9535T	1	6.3	65	-	Auto	Auto	-	Yes	450	650	4	1.4	DIP-8	Networking,Adaptor, PD/QC

⁽⁴⁾ 建議選擇新品LD5523、LD5535A1分別替換LD5525、LD5530R (It is recommended to select the newer generation LD5523, LD5535A1 to substitute for the LD5525, LD5530R respectively)

Isolated High Volt. Green Mode

Part No.	HV Current Source for VCC Startup (mA)	UVLO OFF (V)	Driving Cap. (mA)	Switching Freq.(kHz)	Protection					LEB (ns)	Package	Application
					OCP	OVP	OLP	Ext. OTP	BNO			
LD5760 ⁽³⁾	2.8	7	300/-800	65	Auto	Auto	Auto	Latch	Yes	300	SOP-7/8	Adaptor
LD5760A ⁽³⁾	2.8	7	300/-800	65	Auto	Latch	Auto	Latch	Yes	300	SOP-7/8	Adaptor
LD5760E ⁽³⁾	2.8	7	300/-800	65	Auto	Auto	Auto	Auto	Yes	300	SOP-7/8	Adaptor
LD5760H ⁽³⁾	2.8	7	300/-800	65	Latch	Latch	Latch	Latch	Yes	300	SOP-7/8	Adaptor
LD5760T ⁽³⁾	2.8	7	300/-800	130	Auto	Auto	Auto	-	Yes	300	SOP-7/8	Monitor, Adaptor
LD5762A ⁽³⁾	2.8	6	300/-800	65	Auto	Latch	Auto	Latch	Yes	300	SOP-7/8	Printer
LD5762E ⁽³⁾	2.8	6	300/-800	65	Auto	Auto	Auto	Auto	Yes	300	SOP-7/8	Printer
LD5762E1 ⁽³⁾	3	6	70/-750	65	Auto	Auto	Auto	Auto	Yes	300	SOP-7/8	Adaptor
LD5762H ⁽³⁾	2.8	6	300/-800	65	Latch	Latch	Latch	Latch	Yes	300	SOP-7/8	Printer
LD5762K ⁽³⁾	2.8	6	300/-800	65/130	Auto	Auto	Auto	Auto	Yes	360	SOP-7/8	Printer
LD5762L ⁽³⁾	2.8	6	300/-800	65/130	Latch	Latch	Latch	Latch	Yes	300	SOP-7/8	Printer
LD5762M ⁽³⁾	2.8	6	300/-800	65	Auto	Latch	Auto	Auto	Yes	300	SOP-7	Printer
LD5762P ⁽³⁾	2.8	6	300/-800	65/130	Latch	Latch	Latch	Latch	Yes	300	SOP-7/8	Printer
LD5762P1 ⁽³⁾	3	6	70/-750	65/130	Latch	Latch	Latch	Latch	Yes	300	SOP-7/8	Adaptor
LD5762Q ⁽³⁾	2.8	6	300/-800	65/130	Auto	Auto	Auto	Auto	Yes	300	SOP-7/8	Printer
LD5762S ⁽³⁾	2.8	6	300/-800	65/130	Latch	Latch	Latch	Latch	Yes	380	SOP-7/8	Printer
LD5762W	2.8	6	300/-800	65	Auto	Auto	Auto	Auto	Yes	300	SOP-7/8	Printer
LD5763B3 ⁽³⁾	3	8.5	250/-500	100	Auto	Latch	Auto	Latch	Yes	310	SOP-7/8	PD/QC,Adaptor
LD5763C1 ⁽³⁾	3	8.5	250/-500	65	Auto	Latch	Auto	Latch	Yes	310	SOP-7/8	PD/QC,Adaptor
LD5763C3 ⁽³⁾	3	8.5	250/-500	65	Auto	Latch	Auto	Latch	Yes	310	SOP-7/8	PD/QC,Adaptor
LD5763D1 ⁽³⁾	3	8.5	250/-500	65	Latch	Latch	Latch	Latch	Yes	310	SOP-7/8	PD/QC,Adaptor
LD5763D3 ⁽³⁾	3	8.5	250/-500	65	Latch	Latch	Latch	Latch	Yes	310	SOP-7/8	PD/QC,Adaptor
LD5763E1 ⁽³⁾	3	8.5	250/-500	65	Auto	Auto	Auto	Auto	Yes	310	SOP-7/8	PD/QC,Adaptor
LD5763GS-U1 ⁽³⁾	3	8.5	250/-500	65	Auto	Latch	Auto	Latch	Yes	310	SOP-7/8	PD/QC,Adaptor
LD5763GS-U3 ⁽³⁾	3	8.5	250/-500	60	Auto	Latch	Auto	Latch	Yes	310	SOP-7/8	PD/QC,Adaptor
LD5763K3 ⁽³⁾	3	8.5	250/-500	80	Auto	Auto	Auto	Auto	Yes	310	SOP-8	PD/QC,Adaptor
LD5763M3 ⁽³⁾	3	8.5	250/-500	60/100	Auto	Latch	Auto	Latch	Yes	350/520	SOP-8	PD/QC,Adaptor
LD5763P3 ⁽³⁾	3	8.5	250/-500	65/130	Auto	Latch	Auto	Latch	Yes	310	SOP-8	PD/QC,Adaptor
LD5763R1 ⁽³⁾	3	8.5	250/-500	65	Auto	Auto	Auto	Latch	Yes	310	SOP-7/8	PD/QC,Adaptor
LD5766E ⁽³⁾	3	8.5	250/-500	227	Auto	Latch	Auto	Latch	Yes	310	SOP-8	PD/QC,Adaptor
LD5766E1 ⁽³⁾	3	8.5	250/-500	227	Auto	Latch	Auto	Latch	Yes	310	SOP-8	PD/QC,Adaptor
LD7576A	1	10	500	65	Auto	Auto	Auto	-	-	230	SOP-7/8	Monitor,Adaptor
LD7750B	1	9	500	100	Auto	Latch	Auto	Latch	-	250	SOP-7/8	Monitor,Adaptor
LD7750E	1	10	500	65	Auto	Auto	Auto	Auto	-	250	SOP-7/8	Monitor,Adaptor
LD7751	1	9	500	65	Auto	Auto	Auto	-	-	250	SOP-7/8	Monitor,Adaptor
LD7752	1.3	8	250/-500	65	Auto	Auto	Auto	-	-	250	SOP-7/8	Monitor,Adaptor
LD7752B	1.3	8	250/-500	100	Auto	Auto	Auto	-	-	250	SOP-7/8	Monitor,Adaptor

Isolated High Volt. Green Mode(MOS Combo)

Part No.	HV Current Source for VCC Startup (mA)	UVLO OFF (V)	Switching Freq.(kHz)	Freq. Swapping	Protection					Ton,min (ns)	MOS Integrated Specification			Package	Application
					OCP	OVP	OLP	Ext. OTP	BNO		Voltage Rating BVDSS(V)	Current Rating ID(A)	Ron,typ (Ω)		
LD9164V	1	7	90	No	Auto	Auto	Auto	-	Yes	800	650	4	2.4	SOP-8	Charger
LD961A ⁽³⁾	2.8	7	65	Yes	Auto	Auto	Auto	-	Yes	520	650	10	0.5	SPAK-6L	TV, Monitor
LD966L	3	8.5	227	Yes	Auto	Latch	Auto	-	Yes	250	650	12	0.165	QFN 8*8-26 EP	PD/QC,Adaptor

⁽³⁾ 這些產品具備X電容放電功能並通過安規認證(These products include X-capacitor discharge function with a CB certificate.)

Selection Guide

Synchronous Rectification Driver													
Part No.	Application Operation mode	DET Rating (V)	UVLO OFF (V)	Driving Cap. (mA)	Protection					Self-Supplying Mode	Package	Application	
					Green Mode	Dead Time Setting	Enable	OVP	OTP				
LD8520	CCM/DCM	6(SYN pin)	7.5	1000/-1500	Yes	Yes	Yes	Auto	Inter.(Auto)	-	SOT-26	Networking	
LD8526	CCM/DCM	200	2.8	500/-3000	Yes	Yes	-	-	Inter.(Auto)	Yes	SOT-26	Networking,NB	
LD8526H	CCM/DCM	200	2.8	500/-3000	Yes	Yes	-	-	Inter.(Auto)	Yes	SOT-26	Networking,NB	
LD8526P	CCM/DCM	200	2.8	500/-3000	Yes	Yes	-	-	Inter.(Auto)	Yes	SOT-26	Networking,NB	
LD8526S	CCM/DCM	200	2.8	500/-3000	-	Yes	-	-	Inter.(Auto)	Yes	SOT-26	Networking,NB	
LD8526U	CCM/DCM	200	2.8	500/-3000	Yes	Yes	-	-	Inter.(Auto)	Yes	SOT-26	Networking,NB	
LD8526UP	CCM/DCM	200	2.8	500/-3000	Yes	Yes	-	-	Inter.(Auto)	Yes	SOT-26	Networking,NB	
LD8525F4	CCM/DCM	150	2.8	500/-3000	-	Yes	-	-	-	-	SOT-26	Networking	
LD8528	CCM/DCM	100	3.4	1000/-3000	-	Yes	-	-	-	Yes	SOT-26	Networking,NB	
LD8528U	CCM/DCM	100	3.4	1000/-3000	-	Yes	-	-	-	Yes	SOT-26	Networking,NB	
LD8528D	CCM/DCM	120	3.4	1000/-3000	-	Yes	-	-	-	Yes	SOT-26	Networking,NB	
LD8528U1	CCM/DCM	120	3.4	1000/-3000	-	Yes	-	-	-	Yes	SOT-26	Networking,NB	

Synchronous Rectification Driver(MOS Combo)												
Part No.	Application Operation mode	DET Rating (V)	UVLO OFF (V)	Protection			MOS Integrated Specification			Package	Application	
				Green Mode	Dead Time Setting	Voltage Rating (V)	On-State Resistance(mΩ)					
LD8921	DCM	45	2.8	-	Yes	45	13	SOP-8	Charger			
LD8925F2	DCM/CCM	150	2.8	-	Yes	100	12	SOP-8	Networking			
LD8923F2	DCM/CCM	150	2.8	-	Yes	60	10.5	SOP-8	Networking			
LD8926A61	DCM/CCM	200	2.8	Yes	Yes	60	9	SOP-8	Networking, PD/QC			
LD8926A81	DCM/CCM	200	2.8	Yes	Yes	80	9	SOP-8	Networking, PD/QC			
LD8926AA1	DCM/CCM	200	2.8	Yes	Yes	100	12	SOP-8	Networking, PD/QC			
LD8926AA12	DCM/CCM	200	2.8	Yes	Yes	100	22	SOP-8/DIP-7	Networking, PD/QC			
LD8926AA13	DCM/CCM	200	2.8	Yes	Yes	100	12	SOP-8/DIP-8/ WSOP-8	Networking, PD/QC			
LD8926AA14	DCM/CCM	200	2.8	Yes	Yes	100	8	SOP-8/DIP-8/ WSOP-8	Networking, PD/QC			
LD8926AA62	DCM/CCM	200	2.8	-	Yes	60	9	SOP-8	Networking, PD/QC			
LD8926AA82	DCM/CCM	200	2.8	-	Yes	80	9	SOP-8	Networking, PD/QC			
LD8926AA22	DCM/CCM	200	2.8	-	Yes	100	22	SOP-8	Networking, PD/QC			
LD8926AA23	DCM/CCM	200	2.8	-	Yes	100	12	SOP-8	Networking, PD/QC			
LD8926BA13	DCM/CCM	200	2.8	Yes	Yes	100	12	SOP-8	Networking, PD/QC			
LD8928CA1	DCM/CCM	100	3.4	-	Yes	100	12	SOP-8	Networking, PD/QC			
LD8928CA11	DCM/CCM	100	3.4	-	Yes	100	8	SOP-8	Networking, PD/QC			
LD8928A61	DCM/CCM	100	3.4	-	Yes	60	9	SOP-8	Networking, PD/QC			
LD8928A612	DCM/CCM	100	3.4	-	Yes	60	16	SOP-8	Networking, PD/QC			
LD8928AA1	DCM/CCM	100	3.4	-	Yes	100	12	SOP-8	Networking, PD/QC			
LD8928AA12	DCM/CCM	100	3.4	-	Yes	100	16.5	SOP-8	Networking, PD/QC			

USB Power Delivery Controller										
Part No.	Function				MCU	External power path control	Power Profile	Power Role	Package	Application
LD6612	USB Power Delivery Controller Qualcomm® Quick Charge™ 4/4+ Controller		OTP	NFET	PD2.0, PD3.0, PPS, QC5, QC4, QC3, QC2	Source	SOP-10 / SOP-14 / QFN-16			
LD6615	USB Power Delivery Controller for SMPS		OTP	NFET	PD2.0, PD3.0	Source	SOP-8 / MSOP-8			
LD6617	USB Power Delivery Controller for SMPS		OTP	NFET	PD2.0, PD3.0, PD3.1	Source	QFN16			
LD6935	USB Power Delivery Controller for SMPS		OTP	Built in NFET	PD2.0, PD3.0	Source	WSOP-8			
										USB-C PD Type-C Chargers/Adapters for Smart Phones, NBs, Tablets and All Other Electronics

Active-PFC Primary Side Regulator Controller

Part No.	V _{IN}	Topology	Recommended Power Output (W)	Max. Frequency of Switching (kHz)	HV Start-up	Power Factor	System Accuracy(%)	Package	Application
LD7839	90V~277V AC	Flyback + CC with dimming	< 90	90	No	> 0.92	+/-5	SOP-10	LED lighting with dimming
LD7841/K	90V~277V AC	Single stage PFC + CV	< 90	90	Yes	> 0.92	+/-5	SOP-7/ SOP-8	LED lighting
LD7841Q	90V~277V AC	Single stage PFC + CV	<120W	130	Yes	> 0.92	+/-5%	SOP-7/ SOP-8	LED Lighting

Active-PFC Secondary Side Regulator Controller

Part No.	V _{IN}	Topology	Recommended Power Output (W)	Max. Frequency of Switching (kHz)	HV Start-up	Power Factor	System Accuracy(%)	Package	Application
LD7838	90V~277V AC	Flyback	< 90	300	Yes	> 0.92	+/-3	SOP-7/ SOP-8	LED lighting with dimming
LD7792S	90V~277V AC	PFC + Flyback	< 90	450/85	Yes	> 0.92	+/-3	SOP-16	LED lighting with dimming
LD7792N	90V~277V AC	PFC + Flyback	< 90	450/85	Yes	> 0.92	+/-3	SOP-16	LED lighting with dimming
LD7792O	90V~277V AC	PFC + Flyback	< 90	450/110	Yes	> 0.92	+/-3	SOP-16	LED lighting with dimming

Current Ripple Suppressor

Part No.	Input Voltage (V)	Topology	Output Current Ripple(%)	Package	Application
LD6802J	10~30	Linear for 0~10V , TRIAC dimming	< 5	SOT-26	LED lighting

3 in 1 Flexible Dimming Processor

Part No.	Input Voltage (V)	Topology	Transfer Ratio (%/V)	Output Frequency (kHz)	Cut Off Function	Package	Application
LD8116A	15~58	Analog-to-Digital Converter	11.4	1.5	Yes	SOT-26	LED lighting
LD8116B	15~58	Analog-to-Digital Converter	11.4	1.5	No	SOT-26	LED lighting
LD8116C	15~58	Analog-to-Digital Converter	10	1.5	Yes	SOT-26	LED lighting
LD8116D	15~58	Analog-to-Digital Converter	10	1.5	No	SOT-26	LED lighting
LD8116Q	15~58	Analog-to-Digital Converter	13.3	1.5	No	SOT-26	LED lighting
LD8116QL	15~58	Analog-to-Digital Converter	13.3	1.5	Yes	SOT-26	LED lighting

Secondary Side CC/CV Controller

Part No.	Input Voltage (V)	Topology	Dimmable	Tolerance of Current Sense (%)	Tolerance of Voltage sense(%)	Package	Application
LD8105	3~38	CC/CV Feedback	-	+/-3	+/-1	SOT-26	Charger, LED lighting
LD8115	3~38	CC/CV Feedback	Yes	+/-2	+/-1	SOT-8	Charger, LED lighting
LD8115A	3~38	CC/CV Feedback	Yes	+/-2	+/-1	SOT-8	Charger, LED lighting



| Hsinchu

4F.-1, No.1, Taiyuan 2nd St., Zhubei City,
Hsinchu County 30288, Taiwan, R.O.C.
TEL : 886-3-554-3588 FAX : 886-3-554-0098

| Taipei

16F., No.156, Sec. 1, Zhongshan Rd., Banqiao Dist.,
New Taipei City 22065, Taiwan, R.O.C.
TEL : 886-2-8952-3588 FAX : 886-2-8953-2668

| Shenzhen

Rm10B, Benyuan building, The juncture of Shennan
Road and Tairan Nine Road, Southeast, Futian District,
Shenzhen Guangdong Province, China
TEL : 86-755-8287-3566 FAX : 86-755-8287-3533

