



Princeton Technology Corp.

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2024 Product Selection Guide

A Leader in Quality and Eco-Friendly IC Solutions for Car and Consumer Electronics.



Display Driver IC Series

LCD

Market Applications

- ◆ Car Audio
- ◆ Data Bank, Organizer
- ◆ Portable Equipment with LCD Display
- ◆ Electronic Equipment with LCD Display
- ◆ Information Appliance
- ◆ Measurement System
- ◆ Battery Powered System
- ◆ Industrial Electronic System



LCD Common + Segment Driver IC

Part No.	Common	Segment	Supply Voltage (V)	LCD Drive Bias	Duty	Key Matrix	General Purpose Output Port	Pin Count	Package
PT6533	4, 8	33, 29	3.3 ~ 5	1/4	1/4, 1/8	-	-	44	LQFP COB
PT6578	8 ~ 10	75 ~ 73	2.7 ~ 6	1/4	1/8 ~ 1/10	-	4	100	LQFP
PT16511	4	35	4.5 ~ 6 (See Note 1)	1/3	1/4	-	4 (3 PWM Output Duty = 1)	48	LQFP
PT16512	4	51 ~ 52	4.5 ~ 6 (See Note 1)	1/2, 1/3	1/4	-	8 (3 PWM Output Duty = 1)	64	LQFP
PT16514	4	53 ~ 54	4.5 ~ 6 (See Note 1)	1/2, 1/3	1/4	-	8 (6 PWM Output Duty = 1)	64	LQFP

LCD Common + Segment Driver IC

Part No.	Common	Segment	Supply Voltage (V)	LCD Drive Bias	Duty	Key Matrix	General Purpose Output Port	Pin Count	Package
PT16517	3 ~ 4	71 ~ 70	4.5 ~ 6.3 (See Note 1)	1/2, 1/3	1/3, 1/4	-	8	80	LQFP
PT16527	3 ~ 4	52 ~ 51	3.3 ~ 6 (See Note 1)	1/2, 1/3	1/3, 1/4	-	12	64	LQFP
PT16528	1~ 4	18	2.7 - 5.5 (See Note 1)	Static (or 1/1), 1/2, 1/3	1/1 ,1/2, 1/3, 1/4	-	-	32	QFN
PT16556	3 ~ 4	33 ~ 32	2.7 ~ 6	1/2, 1/3	1/3, 1/4	6(O) x 3(I) (See Note 2)	4	44	LQFP
PT16557	3 ~ 4	42 ~ 41	2.7 ~ 6	1/2, 1/3	1/3, 1/4	6(O) x 5(I) (See Note 2)	4	64	LQFP
PT16576	3 ~ 4	86 ~ 85	2.7 ~ 6	1/2, 1/3	1/3, 1/4	-	8	100	LQFP
PT16580	3 ~ 4	51 ~ 50	4.5 ~ 6 (See Note 1)	1/2, 1/3	1/3, 1/4	-	3 PWM Output Duty = 1	64	LQFP
PT16581	2 ~ 4	33 ~ 31	4.5 ~ 6 (See Note 1)	1/2, 1/3	1/2, 1/3, 1/4	5(O) x 4(I) (See Note 2)	15 PWM Output Duty = 1	64	LQFP
PT16589	3 ~ 4	57 ~ 56	4.5 ~ 6 (See Note 1)	1/3	1/3, 1/4	6(O) x 5(I) (See Note 2)	4 ~ 5	80	LQFP

Notes:

1. CMOS/TTL compatible logic input pins (3.3V Input Signal Available).
2. O = Output, I = Input.
3. SEGN and KIN and KSN are complex pins for Segment Output, Key Scan Input and Key Scan Output Function.

Low Current Consumption LCD Segment Driver IC

Part No.	Common	Segment	Supply Voltage (V)	LCD Supply Voltage (V)	Current Consumption (I _{VDD1})	LCD Drive Bias	Duty	Pin Count	Package
PT6590	4	27	1.8 ~ 3.6	2.7 ~ 5.5	8uA / 3.3V (VDD)	1/1, 1/3	1/1, 1/3, 1/4	40	QFN
PT6592	4	35	1.8 ~ 3.6	2.7 ~ 5.5	6uA / 3.3V (VDD)	1/2, 1/3	1/4	48	LQFP
PT6593	4	49	1.8 ~ 3.6	3.3 ~ 5.5	8uA / 3.3V (VDD)	1/1, 1/3	1/1, 1/3, 1/4	64	LQFP
PT6594	4	42	1.8 ~ 3.6	3.3 ~ 5.5	8uA / 3.3V (VDD)	1/1, 1/3	1/1, 1/3, 1/4	56	QFN
PT6595	4	35	2.7 ~ 3.6	-	12.5uA / 3.3V (VDD)	1/2, 1/3	1/4	48	LQFP

COG Type LCD Driver IC (for LCM)

Part No.	Common	Segment	Supply Voltage (V)	LCD Drive Bias	Duty	Interface	IDD (Normal Mode)	IDD (Power Saving Mode)	Package
PT16516	4	80	Logic : 2.7 ~ 5.5 LCD : 4.5 ~ 5.5	1/2, 1/3	Static, 1/2, 1/3, 1/4	Serial, I ² C	-	-	COG

LCD Character Driver IC

Part No.	Common	Segment	Supply Voltage (V)	Duty	CGROM (bits)	CGRAM (bits)	Key Matrix	Pin Count	Package
PT16588	15 ~ 10	60 ~ 65	2.7 ~ 5.5	1/8, 1/15	240 x 5 x 7	16 x 5 x 7	8(O) x 4(I)	100	TQFP
PT6540	16	40	4.5 ~ 5.5	1/8, 1/11, 1/16	160 x 5 x 7	8 x 5 x 8	-	80	QFP
PT6541	16	40	4.5 ~ 5.5 (See Note)	1/8, 1/11, 1/16	160 x 5 x 7	8 x 5 x 8	-	80	QFP

Note: CMOS/TTL compatible logic input pins (3.3V Input Signal Available).



Display Driver IC Series

TFT

Market Applications

◆ Monitor

◆ Game Console



Source Driver IC

Part No.	Output Channel	Gray Scale (bits)	Data and Clock Interface	Logic Power Supply (V)	LCD Drive Power (V)	Max. Operating Frequency (MHz)	Package
PT16102	804/792/768/720/684	6	CMOS/RSDS	2.3 ~ 3.6	7.5 ~ 13.5	85	COG
PT16103	480/402	6	CMOS/RSDS	2.7 ~ 3.6	7.0 ~ 13.5	85	COG
PT16105C	1440/1284/1278/1260/ 1200/1080/1026/1020/ 960/804/768	8	RSDS/mini-LVDS	2.7 ~ 3.6	8.0 ~ 14.6	RSDS: 85 mini-LVDS: 300	COG
PT16106	1440/1284/1278/1260/ 1200/1080/1026/1020/ 960/804/768	8	RSDS/mini-LVDS	2.7 ~ 3.6	8.0 ~ 14.6	RSDS: 85 mini-LVDS: 300	COG
PT16107	1440/1368/1284/1272/ 1200/1152/1080/960	8	mini-LVDS	2.7 ~ 3.6	8.0 ~ 13.5	mini-LVDS: 300	COG
PT6108	1200/1050/1026/1020/960	6	TTL/RSDS/mini-LVDS	2.3 ~ 3.6	6.5 ~ 13.5	TTL: 55 RSDS: 90 mini-LVDS: 240	COG

Controller/Driver IC

Part No.	Source Output Channel	Gate Output Channel	MUX Output	Gray Scale (bits)	Data and Clock Interface	Input Power Supply (V)	Max. Operating PCLK Frequency (MHz)	Support Resolutions	Package
PT16203	480	16	3/6/9	8	RGB/LVDS	2.6 ~ 3.6	35	360RGBx180, 480RGBx240, 540RGBx180, 700RGBx350, 800RGBx480, 840RGBx294, 1280RGBx240, 1440RGBx300, ...etc.	COG
PT16205	720	16	3/6/9	8	RGB/LVDS	2.6 ~ 3.6	60	640RGBx480, 800RGBx480, 1060RGBx720, 1280RGBx560, 1440RGBx300, 1600RGBx320, ...etc.	COG
PT16206*	720	16	3/6/9	8	RGB/LVDS	2.6 ~ 3.6	60	640RGBx480, 800RGBx480, 1060RGBx720, 1280RGBx560, 1440RGBx300, 1600RGBx320, ...etc.	COG
PT16207*	480	16	3/6/9	8	RGB/LVDS	2.6 ~ 3.6	35	360RGBx180, 480RGBx240, 540RGBx180, 700RGBx350, 800RGBx480, 840RGBx294, 1280RGBx240, 1440RGBx300, ...etc.	COG

Note *: This product is currently under development.

Gate Driver IC

Part No.	Output Channel	Logic Power Supply (V)	LCD Drive Power VGH-VGL(V)	Max. Operating Frequency (KHz)	Package
PT16005	256/240	2.3 ~ 3.6	40	500	COG
PT6003	600/576/540/525/512/480	2.3 ~ 3.6	40	200	COF
PT16007	1200/1152/1080/960	2.7 ~ 3.6	40	200	COG

Display Driver IC Series

OLED

Market Applications

- ◆ Car Audio
- ◆ Instrument
- ◆ Information Appliance
- ◆ Electronic Equipment with OLED Display



OLED Dot Matrix Driver / Controller IC

Part No.	Common	Segment	Logic Supply Voltage (VDD)	Operating Voltage (VHA, VHC)	Output Current (Drive)	Output Current (Sink)	Segment Current Uniformity (Adjacent Pin)	Interface	Package
PT6891	32RGB (96 Mono)	128	1.65V~3.6V	8V~18V	300μA (max)	40mA (max)	2% (max)	8080, 3~4 Wire SPI, I ² C	COG
PT16824	136	256	3V~5.5V	8V~24V	600μA (max)	160mA (max)	2% (max)	8080, 6800, 4 Wire Serial	COG
PT16825	128	128	3V~5.5V	8V~24V	600μA (max)	160mA (max)	2% (max)	8080, 6800, 4 Wire Serial	COG
PT16826*	64	128	3V~5.5V	8V~24V	300μA (max)	155mA (max)	2% (max)	8080, 6800, 4 Wire Serial	COG

Note *: This product is currently under development.

OLED Segment Type Driver / Controller IC

Part No.	Common	Segment	Logic Supply Voltage (VDD)	Operating Voltage (VHA, VHC)	Output Current (Drive)	Output Current (Sink)	Segment Current Uniformity (Adjacent Pin)	Interface	Package
PT16821	3	128	2.7V~5.5V	8V~26V	900μA (max)	100mA (max)	3% (max)	3~4 Wire Serial	COG
PT6892	2	160	1.65V~3.6V	7V~18V	250μA (max)	40mA (max)	2% (max)	8080, 6800, 3~4 Wire SPI, I ² C	COG

Multi-Media Audio IC Series

Audio Processor

Market Applications

- ◆ Compact Audio System
- ◆ Home Theater Audio System
- ◆ Power Active Speaker
- ◆ Car Entertainment System
- ◆ Computer Audio System
- ◆ Set-Top Box
- ◆ Portable Audio System
- ◆ Karaoke Mixer
- ◆ Flat Panel Display and TV



For Car Audio

Part No.	Power Supply (V)	Input Selection	Output	THD(%)@1V	SNR (dB)	Tone	Special Feature	Pin Count	Package
PT12313	5~10	3 x Stereo	4	0.03	100	Treble Bass	Balance/Fader, Loudness AEC-Q100	28	SOP
PT12913	8~10	3 x Stereo 1 x Quasi-Differential	4	0.01	100	Treble Bass	Soft Step/Soft Mute, Direct Mute, Balance/Fader, Loudness	20	SSOP
PT12916	8~10	8 x Stereo 1 x Fully-Differential 1 x Quasi-Differential	4 +1 Sub Woofer	0.01	100	Treble Middle Bass	Soft Step/Soft Mute, Direct Mute, Balance/Fader, Loudness, Front Channel Mixing, Q & Frequency Programmable	36	SSOP
PT12917	8~10	4 x Stereo 1 x Fully-Differential 1 x Quasi-Differential	4 +1 Sub Woofer	0.01	100	Treble Middle Bass	Soft Step/Soft Mute, Direct Mute, Balance/Fader, Loudness, Front Channel Mixing, Q & Frequency Programmable	28	SOP

For Car Audio

Part No.	Power Supply (V)	Input Selection	Output	THD(%)@1V	SNR (dB)	Tone	Special Feature	Pin Count	Package
PT12919	8~10	3 x Stereo 1 x Quasi-Differential	4 +2 Sub Woofer	0.01	100	Treble Middle Bass	Soft Step/Soft Mute, Direct Mute, Q & Frequency Programmable, Balance/Fader, Loudness, Front Channel Mixing	28	SOP
PT2347	4~10	3 x Stereo	4	0.1	97	Treble Bass	Balance/Fader, Loudness with +10dB Output Gain	28	SOP
PT2348	5~10	3 x Stereo	4	0.025	105	Treble Bass	Balance/Fader, Adaptive Loudness	36	SSOP

For Car Audio Power Amplifier

Part No.	Power Supply (V)	Channel	THD(%)@1V	SNR (dB)	Output Power (W)	Min. Load Impedance	Special Feature	Pin Count	Package
PT2929	6 ~ 18	4	0.03	90	45	4	Stop/Start function, Standby/Mute Function, OTP/OCP/OVP, Output Short Protection	25	FZIP

General Purpose

Part No.	Power Supply (V)	Input Selection	Output	THD(%)@1V	SNR (dB)	Special Feature	Pin Count	Package
PT2312E	4~10	4 x Stereo	4	0.03	100	Balance/Fader, Tone, Loudness	32	SOP
PT2313E	4~10	3 x Stereo	4	0.03	100	Balance/Fader, Tone, Loudness	28	SOP
PT2314E	4~10	4 x Stereo	2	0.03	100	Balance, Tone, Loudness	28	SOP
PT2315E	4~10	1 x Stereo	2	0.03	100	Balance, Tone, Loudness	20	SOP

High Performance

Part No.	Power Supply (V)	Input Selection	Output	THD(%)@1V	SNR (dB)	Special Feature	Pin Count	Package
PT2033	4~10	3 x Stereo	4 +1 sub woofer	0.003	105	Balance, Tone, Loudness, Subwoofer Output	32	SOP

Electronic Volume Controller

2 Channels

Part No.	Power Supply (V)	THD(%)@1V	SNR (dB)	Control Interface	Special Feature	Pin Count	Package
PT2257	3~10	0.003	120	I ² C	1dB/Step	8	DIP,SOP
PT2259	4~10	0.003	120	I ² C	Improved Performance	8	DIP,SOP

6 Channels

Part No.	Power Supply(V)	THD(%)@1V	SNR (dB)	Control Interface	Special Features	Pin Count	Package
PT2258	5~10	0.005	105	I ² C	Individual Channel Control	20	DIP, SOP
FR6311	5~10	0.005	105	SPI	Individual Channel Control 2ch in-> 6ch out, or 6ch in-> 6ch out Treble/Bass Control	44	LQFP

Echo Processor

Echo Processor								
Part No.	Power Supply (V)	Channel	INT. RAM	THD (%) @1V	SNR (dB)	Special Feature	Pin Count	Package
PT2399	4.5~5.5	1	44K	0.4	90	Built-in VCO, Delay Time Variable	16	DIP, SOP, SSOP
FR6391	3.5~5.5	1	44K	0.1	90	ALC, Internal micmixing amplifier	28	QFN, SOP
PT2392	3~5.5	2	44K	0.01	100	ALC, micmixing amplifier, Built-in vol, bass, middle, treble, Built-in HP Driver and DEPOP	48	LQFP

Digital-to-Analog Converter

Digital-to-Analog Converter								
Part No.	Power Supply (V)	THD (%) @ 0dBFS	SNR (dB)	Input Format	Conversion Mode	Bit Resolution	Pin Count	Package
PT8211	3~6	0.13	93	Right Justified	R-2R	16	8	DIP, SOP
PT3344	3~5.25	-	93	I2S	delta-sigma	24	10	MSOP

Headphone Driver

Headphone Driver								
Part No.	Power Supply (V)	THD (%) @ 2Vrms	SNR (dB)	Output Power (mW)	Min. Load Impedance	Special Feature	Pin Count	Package
PT2308	3~7	0.001	110	60	32	CMOS Input	8	DIP,SOP
PT2308L	2~4	0.001	110	27	32	Low Voltage Version	8	DIP,SOP

Audio Line Driver

Audio Line Driver								
Part No.	Power Supply (V)	THD (%) @ 2Vrms	SNR (dB)	Output Voltage(Vrms)	Min. Load Impedance	Special Feature	Pin Count	Package
PT3323	3~3.6	0.002	103	2.4	10K	Adjustable gain	14	TSSOP

Radio Data System Decoder

Market Applications

◆ RDS

◆ Home Stereo Tuner

Radio Data System Decoder								
Part No.	Power Supply (V)	OSC Frequency (MHz)	Sensitivity (mV)	Output Format	Special Feature	Pin Count	Package	
PT2579	3.3~5.5	4.332~8.664	1	RDDA, RDCL	De-modulate RDS signal from the 57KHz FM broadcast sub-carrier	16	DIP, SOP, SSOP	

Audio Power Amplifier

Market Applications

- ◆ PC Monitor
- ◆ PDA
- ◆ Flat Panel Display and TV
- ◆ Digital Photo Frame
- ◆ Compact Audio System
- ◆ Public Address System



Class-AB									
Part No.	Power Supply (V)	Channel	THD (%) @1Vrms	SNR (dB)	Output Power (W)	Min. Load Impedance	Special Feature	Pin Count	Package
PT2366	2.5~5.5	1	0.08	94	1.2	8	Shutdown	8	MSOP
PT2366L	2.2~5.5	1	0.08	94	1.2	8	Shutdown	8	MSOP
PT3371	2.5~5.5	1	0.65	90	3	4	Shutdown	8	SOP HSOP

Class-D									
Part No.	Power Supply (V)	Channel	THD (%) @1W	SNR (dB)	Output Power (W)	Min. Load Impedance	Special Feature	Pin Count	Package
PT2831	4.5 ~ 16	2	0.05	90	5 ~ 15	8	4 Gain Settings, AM Avoidance, Filter-Less, PBTL,	28	HTSSOP
PT2832	4.5 ~ 20	2	0.05	90	5 ~ 22	8	4 Gain Settings, AM Avoidance, Filter-Less, PBTL,	28	HTSSOP

Class-F

Part No.	Power Supply (V)	Channel	THD (%) @1W	SNR (dB)	Output Power (W)	Min. Load Impedance	Special Feature	Pin Count	Package
PT3300	2.5~5.5	1	0.12	85	5	2	ClassAB/ClassD Switching	8	ESOP

Multiple Function Audio Amplifier

Market Applications

- ◆ Dock Speaker for Portable Player
- ◆ Portable Audio System
- ◆ Flat Panel Display and TV
- ◆ Multi-Media Speaker
- ◆ PDA, Electronic Dictionary

Multiple Function Audio Amplifier

Part No.	Power Supply (V)	Channel	THD (%) @1V	SNR (dB)	Output Power (W)	Min. Load Impedance	Special Feature	Pin Count	Package
PT2334	3.7~6	2	0.5	89	2	4	16 bits DAC, Volume, Tone, Input Mux, Headphone Driver	48	LQFP
PT2369	3~6	2	0.05	95	2.6	4	Volume, Shutdown, Headphone Driver	24	HTSSOP
PT2811	3~6	2	0.2	89	3	4	Single-Ended & Differential Input, Input Gain, Input Mux, Smooth Volume, Tone, Built-in RF Noise Filter	48	LQFP
PT2830	7~13.8	2	0.1	95	10	8	Volume, Tone, Input Mux, Shutdown	48	LQFP
PT2834	7 ~ 15	2	0.027	87	7.8~ 25	4	4 Gain Settings, AM Avoidance, Filter-Less, PBTL, ALC	64	E-TQFP

Motor Driver IC Series

Motor Driver

Market Applications

- ◆ CCTV, Security
- ◆ DSLR/DSC/DV
- ◆ Medical Equipment
- ◆ AF Function for Mobile Phone, Web/IP Camera
- ◆ Office Automation Machine
- ◆ Amusement Machine



Mid-Voltage Stepping Motor Driver IC

Part No.	VCC (V)	VM (V)	CH	Max. Current (A)	Control	Other Feature	Input Mode/ Motor Excitation	Pin Count	Package
PT2465	2.7 ~ 5.5	2.5 ~ 16	2	1.2	CLK-IN	UVLO, TSD	2-Phase/ 1-2 Phase W1-2/2W1-2	20	TSSOP
PT2474	2.7 ~ 5.5	2.5 ~ 16	2	0.8	Parallel	UVLO, TSD	EN/IN, IN/IN	10	SOP
PT2484/ PT2484A	2.7 ~ 5.5	2.5 ~ 16	2	0.8	Parallel	UVLO, TSD	EN/IN1~4	10	SOP
5139A	-	2.7 ~ 15	2	0.7	Parallel	UVLO, TSD, OCP	IN/IN	16	QFN, TSSOP

DC Motor Driver IC

Part No.	VCC (V)	VM (V)	CH	Max. Current (A)	Control	Other Feature	Input Mode	Pin Count	Package
PT2464	2.5 ~ 5.5	2.0 ~ 16	2	1.8	Parallel	UVLO, TSD,OCP	EN/IN, IN/IN	16,24	SOP,QFN
PT2466	1.8~ 6	0 ~ 12	1	1.8	Parallel	UVLO, TSD,OCP	IN/IN, PH/EN	8	DFN,SOP
PT2470	-	6.5 ~ 36	1	3.6	Parallel	UVLO, TSD,OCP Rsense, Vref	IN/IN	8	HSOP
PT2476	2.7 ~ 5.5	2.0 ~ 24	1	2.8	Parallel	UVLO, TSD,OCP	IN/IN	8	HSOP
PT2480	-	6.5 ~ 45	1	3.6	Parallel	UVLO, TSD,OCP Rsense, Vref	IN/IN	8	HSOP
PT2481	-	6.5 ~ 45	1	3.6	Parallel	UVLO, TSD,OCP Ilimit	IN/IN	8	HSOP
PT2482	-	6.5 ~ 45	1	3.6	Parallel	UVLO, TSD,OCP Rsense, nFault	IN/IN	8	HSOP
PT2485	-	6.5 ~ 45	1	3.6	Parallel	UVLO, TSD,OCP Rsense, Fault	Phase/Enable	28	HTSSOP
PT2490*	-	6.5 ~ 36	1	5	Parallel	UVLO, TSD,OCP Rsense, Vref	IN/IN	8	HSOP
PT5126A	2.7 ~ 5.5	2.0 ~ 24	1	2.8	Parallel	UVLO, TSD	IN/IN	8	SOP, HSOP

Note *: This product is currently under development.

High Voltage Stepping Motor Driver IC

Part No.	Input Logic (V)	VM (V)	CH	Output Current	Parallel Control	Other Feature	Input Mode/ Motor Excitation	Pin Count	Package
PT2469	2.7 ~ 5.5	8.2 ~ 40	2	1.6	Parallel	UVLO, TSD, OCP Rsense, Fault	Phase/Enable	28	HTSSOP VQFN
PT2475	3 ~ 5	8 ~ 36	4	1.2	Parallel	UVLO, TSD	2-Phase/ 1-2 Phase W1-2	36, 48	QFN LQFP
PT2477	2.7 ~ 5.5	8.2 ~ 45	2	1.6	Parallel	UVLO, TSD, OCP 32u-step	Step/Dir/Enable	28	HTSSOP VQFN
PT2479L*	2.7 ~ 5.5	8.2 ~ 40	2	2.5	Parallel	UVLO, TSD, OCP Rsense, Fault	IN/IN	28	HTSSOP
PT2483L	2.7 ~ 5.5	8.2 ~ 40	2	2.5	Parallel	UVLO, TSD, OCP Rsense, Fault	Phase/Enable	28	HTSSOP
PT2489L	2.7 ~ 5.5	8.2 ~ 40	2	2.5	Parallel	UVLO, TSD, OCP Rsense, Fault	Phase/Enable	28	HTSSOP

Note *: This product is currently under development.

Multi-Channel Motor Driver IC

Part No.	VCC (V)	VM (V)	CH	Max. Current (A)	Control	Other Feature	Motor Excitation	Pin Count	Package
PT5111	2.7 ~ 5.5	2.5 ~ 5.5	6 + 1	0.8	SPI+Parallel	UVLO, Over Temperature	FS × 1, CC × 2, 256μ-step BTL × 4	40	QFN

Automotive DC Motor Driver IC

Part No.	VCC (V)	VM (V)	CH	Max. Current (A)	Control	Other Feature	Input Mode	Pin Count	Package
PT12464	2.5 ~ 5.5	2.0 ~ 16	2	1.8	Parallel	UVLO, TSD, OCP	EN/IN, IN/IN	16,24	SOP, QFN
PT12482	-	6.5 ~ 45	1	3.6	Parallel	UVLO, TSD, OCP Rsense, FALTN	IN/IN	8	HSOP
PT12490*	-	6.5 ~ 45	1	5	Parallel	UVLO, TSD, OCP Rsense, FALTN	IN/IN	8	HSOP
PT12491*	-	4.5 ~ 32	8	1	SPI	UVLO, OVP, OCP OTW, OTSD, OLD, FALTN	SPI	24	HSOP

Note *: This product is currently under development.

Automotive Stepping Motor Driver IC

Part No.	Input Logic (V)	VM (V)	CH	Output Current	Parallel Control	Other Feature	Input Mode/ Motor Excitation	Pin Count	Package
PT12469	2.7 ~ 5.5	8.2 ~ 40	2	1.6	Parallel	UVLO, TSD, OCP Rsense, Fault	Phase/Enable	28	HTSSOP VQFN
PT12477	2.7 ~ 5.5	8.2 ~ 45	2	1.6	Parallel	UVLO, TSD, OCP 32u-step	Step/Dir/Enable	28	HTSSOP VQFN

Motor Driver IC Series

BLDC Motor Driver IC

Market Applications

◆ 3-Phase BLDC/PMSM Motor

◆ Fan for Home Appliance

◆ Small Pump



Three Phase BLDC/PMSM Motor Solution

Part No.	Input Logic (V)	VDD (V)	Current (mA)	Max. Driver Current (A)	IC type	Sensor /Sensorless	Speed Control	Parameters Seeting	Pin Count	Package
PT2432	0 ~ 5	6 ~ 28	3	1.5 (6V ~ 15V) 0.8 (15V ~ 28V)	Driver	Sensorless	PWM,VSP	External RC	16/20	HTSSOP
PT2502	0 ~ 5	6 ~ 24	5	-	Controller	Sensorless	PWM,VSP,CLK	I2C OTP	28	SSOP
PT2522	0 ~ 5	6 ~ 18	5	1.2A (Drive) 2.0A (Sink)	Controller + Gate Driver	Sensorless	PWM,VSP,CLK	I2C OTP	28	SSOP
PT2505	0 ~ 5	9 ~ 28	7	-	Sinewave Controller	Hall Sensor IC Hall Element	PWM,VSP,CLK	I2C OTP	24,28	SSOP
PT2511	0 ~ 5	9 ~ 28	7	2 (6V ~ 16V) 1.5 (16V ~ 28V)	Sinewave Driver	Hall Sensor IC Hall Element	PWM,VSP,CLK	I2C OTP	28,40	HTSSOP QFN
PT2512	0 ~ 5	2.5 ~ 8	2.5	1	Sinewave Driver	Sensorless	PWM,VSP,CLK	External RC	16	QFN
PT2513	0 ~ 5	6 ~ 16	5	1	Sinewave Driver	Sensorless	PWM,VSP	External RC	16,20	HTSSOP QFN
PT2513A/B	0 ~ 5	6 ~ 16	5	1	Sinewave Driver	Sensorless	PWM,VSP,CLK	External RC	20	HTSSOP

Three Phase BLDC/PMSM Motor Solution

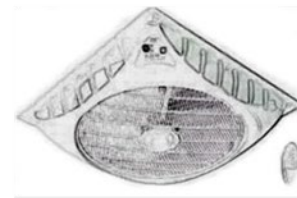
Part No.	Input Logic (V)	VDD (V)	Current (mA)	Max. Driver Current (A)	IC type	Sensor /Sensorless	Speed Control	Parameters Setting	Pin Count	Package
PT2515	0 ~ 5	9 ~ 26	6	1	Sinewave Driver	Sensorless One Hall	PWM,VSP,CLK	External RC	20, 28	HTSSOP
PT2504*	0 ~ 5	9 ~ 26	6	-	Sinewave Driver	Sensorless	PWM,VSP,CLK	External RC	20	HTSSOP
PT2514*	0 ~ 5	6 ~ 18	6	1.5	Sinewave Driver	Sensorless	PWM,VSP,CLK	External RC	24	TSSOP

Note *: This product is currently under development.



AC Synchronous Motor Solution

Part No.	Input Logic (V)	VDD (V)	Current (mA)	Max. Driver Current (A)	IC type	AC frequency	Speed Control	Parameters Setting	Pin Count	Package
PT2509	0 ~ 5	8 ~ 28	4	0.4	Sinewave Driver	40Hz ~ 100Hz 50Hz default	EN, CLK	SEL	8	SOP



Motor Driver IC Series

Gate Driver IC

Market Applications

- ◆ E-tool
- ◆ E-Bike
- ◆ Home Appliance
- ◆ 3-phase Motor Inverter Driver



Gate Driver IC

Part No.	VCC (V)	Phase	Voffset	Input Logic	Drive /Sink (mA)	High/Low Side UVLO (V)	Dead Time (ns)	Other Features	Pin Count	Package
PT5606	12 ~ 15	1	600V	HIN, LINB	290/ 620	7.2 / 8.1	500	-	8	SOP
PT5607	12 ~ 15	1	600V	HIN, LIN	290/ 620	7.2 / 8.1	500	-	8	SOP
PT5616	12 ~ 15	3	600V	HIN, LIN	200/ 400	7.5 / 8.2	500	ltrip/FO	28	SOP
PT5616A	12 ~ 15	3	600V	HINB, LINB	200/ 400	7.5 / 8.2	300	ltrip/FO	28	SOP
PT5618	10~20	3	200V	HIN, LIN	320/ 620	7.3 / 8.0	600	-	20,24	TSSOP
PT5619	5.5~18	3	90V	HIN, LIN	1200/ 2000	3.5 / 3.8	500	-	20/24,24	TSSOP,QFN
PT5619A*	5.5~18	3	90V	HIN, LIN	1200/ 2000	3.5 / 3.8	500	Internal BSD	20/24	TSSOP
PT5620	5.5~18	1	100V	EN, PWM	1500/ 2500	3.4 / 3.7	Adj	-	10	MSOP
PT5671	4.5 ~ 32	3	32V	HIN, LIN	140/ 170 (H) 80/ 230 (L)	3.8	100	Charge pump type	20	TSSOP,QFN

Note *: This product is currently under development.

MCU IC Series

MCU IC

Market Applications

◆ BLDC Motor Controller

- ◆ Handheld Equipment
- ◆ Consumer Products
- ◆ Automotive



32-bit ARM Based Cortex-M0 MCU Series

Part No.	Core	Frequency	Power Supply (V)	FLASH	SRAM	IO	TIMER/ PWM	UART/SPI/ I2S/I2C/ USB	DMA/ RTC	ADC/ COMP	PGA/ HV-GD/ Stepping Motor	AEC-Q100	Package
PT32A301	ARM-M0	48MHz	2.0 ~ 3.6	32K	4K	45	3/3	2/1/-/1/-	-/1	12bit x 8/4	1/-/-	Grad 1	QFN24
PT32B501*	ARM-M0	32MHz	1.8 ~ 5.5	64K	8K	54	9/2	2/1/-/1/-	-/1	24bit x 9/1	-/-/-	-	LQFP64, SSOP28
PT32C302	ARM-M0	48MHz	2.0 ~ 3.6	64K	8K	58	6/6	3/1/2/2/1	6ch/1	12bit x 8/4	1/-/-	-	LQFP64/48, QFN24
PT32C501*	ARM-M0	72MHz	1.8 ~ 5.5	128K	16K	54	13/6	4/3/1/2/1	6ch/1	12bit x 16/2	-/-/-	-	LQFP64/48
PT32C637	ARM-M0	48MHz	(VM)8.2 ~ 45	32K	4K	27	3/3	2/1/-/1/-	-/1	12bit x 8/4	1/-/32u-step_1.6A	Grad 1	QFN48

Note *: This product is currently under development.

32-bit ARM Based Cortex-M0 MCU Series

Part No.	Core	Frequency	Power Supply (V)	FLASH	SRAM	IO	TIMER/ PWM	UART/SPI/ I2S/I2C/ USB	DMA/ RTC	ADC/ COMP	PGA/ HV-GD/ Stepping Motor	AEC-Q100	Package
PT32M622	ARM-M0	48MHz	2.0 ~ 3.6	32K	4K	27	3/3	2/1/-/1/-	-/1	12bit x 8/4	1/200V/-	-	LQFP48
PT32M625	ARM-M0	48MHz	2.0 ~ 3.6	32K	4K	27	3/3	2/1/-/1/-	-/1	12bit x 8/4	1/90V/-	-	LQFP48
PT32M725	ARM-M4	120MHz	2.4 ~ 3.6	64K	16K	28	5/6	2/2/2/1/-	5ch/1	12bit x 15/1	1/90V/-	-	LQFP48
PT32U301	ARM-M0	48MHz	2.0 ~ 3.6	32K	4K	45	3/3	2/1/-/1/-	-/1	12bit x 8/4	1/-/-	-	LQFP48/32, SSOP24, SOP16, SOP8
PT32U303	ARM-M4	120MHz	2.4 ~ 3.6	64K	16K	39	5/6	2/2/2/1/-	5ch/1	12bit x 15/1	-/-/-	-	LQFP48



Power IC Series

AC-DC Converter IC

Market Applications

- ◆ Switching AC/DC adapter
- ◆ Standby Power supply
- ◆ Battery Charger
- ◆ Set-Top-Box (STB) power supply
- ◆ Open Frame switching power supply
- ◆ Cell phone charger



Green Power OFF-Line Controller

Part No.	Character	Topology	Switching Frequency (KHz)	Start-Up Current	Operating Current	Protection	Pin Count	Package
RS2051	Green-Mode PWM Controller (Applications up to 48W)	Flyback and Current Mode	67/22	3 μ A	1.2mA	OVP/OLP/OCP/UVLO	6	SOT-23
RS2053	High efficiency Multi-Mode PWM Controller Low Standby Power consumption (>30mW) (Applications up to 48W)	Flyback and Current Mode	65	3 μ A	2.5mA	OVP/OLP/OCP/UVLO	6	SOT-23

Green Power Off-Line SMPS Switcher

Part No.	Character	Topology	Switching Frequency (KHz)	Start-Up Current	Operating Current	Protection	Pin Count	Package
RS2122A	High Efficient PSR PWM Power Switch Standby Power Low Consumption(<30mW) (Applications up to 5W@230VAC)	Flyback and Current Mode	Variable (max. 100)	1μA	0.8uA	OVP/OLP/OCP/UVLO	7	SOP
RS2138A	PSR PWM Power Switch (Applications up to 12W@230VAC)	Flyback and Current Mode	Variable (max. 60)	5μA	0.8mA	OVP/OLP/OCP/UVLO	8	DIP
RS2139	PSR PWM Power Switch (Applications up to 18W@230VAC)	Flyback and Current Mode	60	5μA	2.5mA	OVP/OLP/OCP/UVLO	8	DIP
RS2253A	SSR PWM Power Switch (Applications up to 6W@230VAC)	Flyback and Current Mode	65	3μA	1.3mA	OVP/OLP/OCP/UVLO	8	SOP
RS2259	SSR PWM Power Switch (Applications up to 20W@230VAC)	Flyback and Current Mode	50	3μA	2mA	OVP/OLP/OCP/UVLO	8	DIP
RS3303	High Efficient Non-isolation Off-Line Switcher	Buck	80	1μA	0.9mA	OVP/OLP/OCP/UVLO	7	SOP DIP

Power IC Series

Regulator

Market Applications

- ◆ High Efficiency Linear Regulators
- ◆ LAN Card, ADSL/Cable Modem
- ◆ Set-Top-Box Power Supply
- ◆ Computer Peripherals
- ◆ Core Voltage Supply : FPGA 、 PLD 、 DSP 、 CPU

Single Channel Linear Voltage Regulator

Part No.	Character	V _{IN} (V)	V _{OUT} (V)	Output Current	Dropout Voltage	Accuracy	Protection	Pin Count	Package
RS1117A	1A LDO Positive Voltage Regulator (Output Voltage:1.8V, 2.5V, 3.3V, 5V, ADJ)	1.5~15	1.4~5	1.0A	1.4V@1A	±2%	OCP/OTP/ SCP	4 3	SOT-223 SOT-89

Adjustable Precision Shunt Regulator

Part No.	Character	Reference Voltage(V)	Accuracy	Cathode Current Max. (Continuous)	Cathode Current Min. (Regulation)	Reference Input Current	Off-State Cathode Current	Cathode Voltage (V)	Pin Count	Package
RS431	Adjustable Precision Shunt Regulator	2.5	±0.4% / ±0.8%	100mA	0.4mA	0.7µA	0.05µA	36(max.)	3	TO-92 SOT-23

Operational Amplifier

Part No.	Character	Single Supply Voltage(V)	Split Supplies(V)	Supply Current (typ)	Output Current (source)	Output Current (sink)	Large Voltage Gain (dB)	Power Supply Rejection (dB)	Pin Count	Package
RS358	Low Power Dual Operational Amplifiers	32	±16	0.7mA	40mA	20mA	80	100	8	SOP

3 - Channel Magnet Driver

Part No.	Character	V _{IN} (V)	V _{OUT} (V)	Output Current	Protection	Pin Count	Package
PT3768	3-Channel High-Current Low-Saturation Driver	18V(Max)	18V(Max)	CH1/2 1A CH3 2.0A	On-Chip Spark Killer Diodes	8	SOP



Power IC Series

DC-DC Converter IC

Market Applications

- ◆ Set-Top-Box (STB) power supply
- ◆ Microprocessor core supply
- ◆ Telecom Equipment
- ◆ ADSL modem
- ◆ Portable electronics product power supply
- ◆ Printer and other Peripheral Equipment
- ◆ Network king power supply

Asynchronous DC-DC Buck Converter

Part No.	Character	V _{IN(V)}	V _{OUT(V)}	Output Current(A)	Switching Freq (Typ.)	Feedback Voltage(V)	Efficiency (Max.)	Protections	Pin Count	Package
PT3721	Synchronous DC-DC Buck Converter	4.5~17	0.78~7	2/3	550KHz	0.78	90%	OTP/OCP/UVL O	6 8	SOT-23 HSOP
PT3728	Synchronous DC-DC Buck Converter	4.5~18	0.78~7	3	600KHz	0.78	90%	OTP/OCP/UVL O	8	HSOP
PT16754*	Synchronous DC-DC Buck Converter	4.5~30	0.78~24	3	700KHz	0.79	90%	OTP/OCP/UVL O	8	DFN
RS2596	Non-Synchronous DC-DC Buck Converter	4.5~40	1.23~37	3	150KHz	1.25	85%	OTP/OCP/ UVLO	5	TO-263
RS6513	Non-Synchronous DC-DC Buck Converter	3.6~20	0.8~16	2	350KHz	0.8	90%	OTP/OCP/UVL O	8	SOP
RS8017	Synchronous Dual Channel DC-DC Buck Converter	2.7~5.5	0.6~5.5	1.2	1.5MHz	0.6	95%	OTP/OCP/UVL O	12	DFN

Note *: This product is currently under development.

PFC Controller IC

PFC Controller IC

Market Applications

◆ Lighting (LED & Fluorescent)

◆ AC-DC Power Supply

PFC IC									
Part No.	Power Supply (V)	Topology	Input Voltage	Power Device	Enable/Disable	Over Voltage Protection	Current Sense Clamp	Pin Count	Package
PT5634A	14 ~ 20	Critical Condition Mode	85 ~ 264	Ext. MOS	Yes (Pin 1)	27 μ A	1.08V	8	SOP DIP



LED Driver IC Series

LED Driver IC

Market Applications

- ◆ BD/DVD Player, Set-Top Box
- ◆ Electronic Equipment with LED Display
- ◆ Microwave Oven
- ◆ Washing Machine
- ◆ LED Module



LED Display Driver IC

Part No.	Segment	Controller	Grid/Digit	Key Matrix	Supply Voltage (V)	Output Current (Drive)	Output Current (Sink)	Pin Count	Package
PT6967	15 ~ 10	v	4 ~ 9	3 x 10	3 ~ 5.5 (See Note1)	50mA (max.)	250mA	32	SOP QFN
PT6969	8	v	7 (See Note2)	2 x 8	4.5 ~ 5.5 (See Note1)	50mA (max.)	400mA	24	SOP

Note 1: CMOS/TTL compatible logic input pins (3.3V Input Signal Available).

Note 2: Includes 1 single output DGT0_LED to drive up to 8 discrete LEDs.

LED Display Driver IC (Dot Matrix/7-Segment)

Part No.	Output	Support 7-Segment Type	LED (Piece)	Interface	Supply Voltage (V)	Constant Current	Dimming	Pin Count	Package
PT6950	9~ 18	v	144 (max.)	SPI, I ² C	4.5 ~ 5.5 (See Note)	33mA (max.)	16 Dimming Quantity	28	SOP QFN
PT6951	10	v	90 (max.)	SPI, I ² C	4.5 ~ 5.5 (See Note)	33mA (max.)	256 Dimming Quantity	20	TSSOP
PT6952	12	v	132 (max.)	SPI, I ² C	4.5 ~ 5.5 (See Note)	33mA (max.)	16 Dimming Quantity	28	SOP

Note: CMOS/TTL compatible logic input pins (3.3V Input Signal Available).



LED Driver IC Series

LED Lighting Driver IC

Market Applications

- ◆ AC-DC LED Lighting
- ◆ Industrial and Commercial Lighting
- ◆ Solid State Lighting
- ◆ DC-DC LED Lighting



LED Lighting Driver IC

Part No.	Field	Topology	PF	MOS	Typical Application	Limit Range	Protection	Pin Count	Package
PT1901D**	Linear-Mode LED Driver	Low THD Contant Input and Output Power, 4-Segment Current Regulator	0.99	500V/100mA	16W	Pout<18W (220V)	LED Open/Short Smart Thermal CTR	8 16	ESOP
PT1905	Linear-Mode LED DRIVER	1-Segment Current Regulator 3-level ON/OFF Dimming	0.5~0.9	500V/100mA	250V/30mA 250V/60mA	Pout<10W (220V)	LED Open/Short Smart Thermal CTR	5 8	TO-252 ESOP
PT1908	Current Ripple Remover	Remove the 100/120Hz current ripple	-	40V/120mA	30mA 60mA	Pd<0.4W <0.6W	Smart Thermal CTR	3	SOT-23 SOT-89
PT1909**	Linear-Mode LED DRIVER	Low THDi Contant Input and Output Power, 3-Segment Current Regulator	0.99	700V/200mA	24W	Pout<25W(220 V)	LED Open/Short Smart Thermal CTR	16	ESOP
PT1910	Linear-Mode LED DRIVER	Single Section can meet all the 120V AC and 220V AC Linear LED Driver	>0.9	500V/100mA	10W	Pout<10W (220V)	LED Open/Short Smart Thermal CTR	8	ESOP

LED Lighting Driver IC

Part No.	Field	Topology	PF	MOS	Typical Application	Limit Range	Protection	Pin Count	Package
PT1911**	Linear-Mode LED DRIVER	Low THDi Contant Input and Output Power, 4-Segment Current Regulator can meet all the 100V AC to 265V AC Linear LED Driver	>0.99	700V/150mA	15W	Pout<18W (220V)	LED Open/Short Smart Thermal CTR	16	ESOP
PT1911H	Linear-Mode LED DRIVER	Low THDi Contant Input and Output Power, 4-Segment Current Regulator can meet all the 100V AC to 265V AC Linear LED Driver	>0.99	700V/150mA	15W	Pout<18W (220V)	LED Open/Short Smart Thermal CTR	16	ESOP
PT1919**	Linear-Mode LED DRIVER	Low THDi Contant Input and Output Power, 3-Segment Current Regulator	0.99	700V/200mA	16W	Pout<18W (220V)	LED Open/Short Smart Thermal CTR	8	ESOP
PT1920**	Linear-Mode LED DRIVER	Single Section can meet all the 120V AC and 220V AC Linear LED Driver	>0.9	700V/100mA	10W	Pout<10W (220V)	LED Open/Short Smart Thermal CTR	8 16	ESOP
PT1921*	Linear-Mode LED DRIVER	Single Section can meet all the 120V AC and 220V AC Linear LED Driver	>0.95	650V/150mA	15W	Pout<18W (220V)	LED Open/Short Smart Thermal CTR	16	ESOP
PT1922*	Linear-Mode LED DRIVER	High Efficiency Switch, Lifting Effi>0.9; Linear LED Driver	>0.90	250V/300mA	30W	Pout<30W (REF)	LED Open/Short Smart Thermal CTR	8	ESOP

LED Lighting Driver IC

Part No.	Field	Topology	PF	MOS	Typical Application	Limit Range	Protection	Pin Count	Package
PT1929*	Linear-Mode LED DRIVER	Low THDi Contant Input and Output Power, 3-Segment Current Regulator	0.99	650V/150mA	20W	Pout<25W(220V)	LED Open/Short Smart Thermal CTR	16	ESOP
PT6911**	AC-DC Non-Isolation Switch-Mode	Buck-Mode with Hysteretic Constant-current Control	0.5	Ext.	80V/240mA	Pout<20W	UVLO/THSD	8	SOP
PT6984A	AC-DC Non-Isolation Switch-Mode	Buck-Mode LED Driver	0.5	500V/3A	80V/300mA	Iout<350mA	LED Open/Short Smart Thermal CTR OVP/OCV/UVLO	8	SOP DIP
PT6988**	AC-DC Non-Isolation Switch-Mode	Buck-Mode LED Driver	0.5	500V/3A	80V/300mA	Iout<400mA	LED Open/Short Thermal Shutdown OVP/OCV/UVLO	8	SOP DIP
PT6989**	AC-DC Non-Isolation Switch-Mode	PWM Dimming Buck-Mode LED Driver	0.5	500V/3A	80V/300mA	Iout<400mA	LED Open/Short Thermal Shutdown OVP/OCV/UVLO	8	SOP DIP

Note: *= This product is currently under development.

Note: **= This product has PWM/Analog dimming.



LED Driver IC Series

LED Backlight Driver IC

Market Applications

◆ Automotive LED Backlight

◆ DSC LED Backlight

◆ Portable Device LED Backlight

LED Backlight Driver IC

Part No.	Vin (V)	Topology	fosc (KHz)	Dimming	Output Channel	Output Current	Protection	Pin Count	Package
PT6908	9~36	Boost-Mode with Close-Loop Constant-Current Control	25~350	PWM/Linear	1	Depend on External MOS	UVLO/OCP/OVP	16	SOP
PT6971	4~15	Boost Converter + 1CH Constant Current Regulator	600	PWM	1	30mA	UVLO/OCP/OVP LED Open/Short	8	DFN
PT6973	4~15	Boost Converter + 1CH Constant Current Regulator	600 or Ext. Syn.	PWM	1	30mA	UVLO/OCP/OVP LED Open/Short	8	DFN
PT16972	6~36	Boost Converter + 4ch Constant Current Regulator	200~2100	PWM	4	100mA/ch	UVLO/OCP/OVP THSD/OPEN/SHORT	24	HTSSOP

LED Driver IC Series

Automotive LED Driver IC

Market Applications

◆ Automotive LED Lighting

◆ Car Cluster

LED DRIVER for Car Cluster

Part No.	Channel	Supply Voltage (V)	LED Current Per Channel (mA)	Output Voltage (V)	Output Leakage Voltage (V)	Control	Serial Clock Frequency (MHz)	Pin Connt	Package
PT16940	12	3~5.5	50(max)	35	1	SIPO+Parallel	1.25	20	TSSOP
PT16941	8	3~5.5	50(max)	35	1	SIPO+Parallel	1.25	16	TSSOP SOP



LED Driver for Automotive Lighting

Part No.	Vin (V)	Topology	fosc (KHz)	Dimming	Output Channel	Output Current	Protection	Pin Count	Package
PT16750	4.5~65	Buck/Buck-Boost/Boost/Sepic high-side Current Sense	80 ~ 700	PWM/Analog	1	1500mA	UVLO/OCP/ OVP/OTP	16	HTSSOP
PT16751	4.5~65	Buck/Buck-Boost/Boost/Sepic high-side Current Sense Programable OverHeating Protection	80 ~ 800	PWM/Analog	1	1500mA	LED Open/Short UVLO/OCP/ OVP/OTP	20	HTSSOP
PT16752	4.5~65	Buck/Buck-Boost/Boost/Sepic high-side Current Sense Spread Spectrum Modulation Slope compensation	80 ~ 700	PWM/Analog/ Analog to PWM	1	1500mA	LED Open/Short UVLO/OCP/ OVP/OTP	20	HTSSOP
PT16753	5-48	Buck True average output current control Dithering of switching frequency	500~1500	PWM/Analog	1	3000mA	LED Open/Short UVLO/OCP/ OVP/OTP	8	HSOP
PT16755*	5~65	Buck/Buck-Boost/Boost/Sepic high-side Current Sense Spread Spectrum Modulation two Analog Dimming	200~2500	PWM/Analog/ Analog to PWM	1	1500mA	LED Open/Short UVLO/OCP/ OVP/OTP	20	HTSSOP

Note *: This product is currently under development.

LED Driver for Automotive Lighting

Part No.	Vin (V)	Topology	fosc (KHz)	Dimming	Output Channel	Output Current	Protection	Pin Count	Package
PT16974	5.5~45	8CH linear programmable constant current sources	-	PWM	8	100mA/ch	UVLO/OCV/ OVP/OTP LED Open	24	HSSOP
PT16976	4.5-50	linear LED controller, drives external NPN transistor Setback current limit function Multiple LED String Control	-	PWM	1	1200mA	LED Open/Short UVLO/OVP/OTP	8	SOP
PT16977*	5-40	Three-Channel Linear LED Driver Independent PWM Dimming per Channel Separate Fault Pin for Single-LED Short Failure	-	PWM/Analog	3	150mA/ch	LED Open/Short UVLO/OTP	16	HTSSOP
PT16978*	4.5-40	Three-Channel Linear LED Driver Thermal sharing by external shunt resistor Independent PWM Dimming per Channel Single-LED Short Detection	-	PWM/Analog	3	150mA/ch	LED Open/Short UVLO/OTP	20	HTSSOP

Note *: This product is currently under development.

RF IC Series

Power Amplifier IC

Market Applications

◆ FRS, GMRS Handsets

◆ Long Distance Remote Control

Power Amplifier IC

Part No.	Voltage Range (V)	Max. Supply Current (A)	Control Current (mA)	Frequency Range (MHz)	PA Efficiency (%)	Max. Power (W)	VSWR	Pin Count	Package
PA2460	3 ~ 6	1.1	0.2 ~ 30	300 ~ 480	55	2	1.5:1	8	SOP-FD



RF IC Series

Receiver IC

Market Applications

- ◆ Remote Keyless Entry (RKE)
- ◆ Remote Control/Sensor
- ◆ Family Radio Service (FRS)
- ◆ Home Security
- ◆ Wireless Audio (Analog)



Receiver IC

Part No.	Voltage Range (V)	Current Consumption (mA)	Frequency Range (MHz)	Modulation Type	LO Type	IF Frequency (MHz)	Sensitivity (dBm)	Pin Count	Package
PT4301	2.4 ~ 5.5	5.3	250 ~ 500	OOK/ASK	PLL	10.7	-112	24	SSOP
PT4302	2.4 ~ 5.5	2.9	250 ~ 500	OOK/ASK	PLL	10.7	-111	16	SSOP
PT4303	2.4 ~ 5.5	2.9	250 ~ 500	OOK/ASK	PLL	10.7	-110	14	SOP
PT4304	2.4 ~ 5.5	4.6	315/434	OOK/ASK	PLL	1.236	-112	16	SSOP
PT4305	2.4 ~ 5.5	5.2	315/434	FSK	PLL	1.236	-106	16	SSOP
PT4306	2.4 ~ 5.5	4.6	434	OOK/ASK	PLL	1.236	-112	8	SOP
PT4307	2.4 ~ 5.5	4.3	315	OOK/ASK	PLL	1.235	-114	8	SOP
PT4308	2.1 ~ 5.5	4.3	434	OOK/ASK	PLL	1.236	-114	8	SOP
RX3310A	2 ~ 6	3 at V _{CC} =3V 5 at V _{CC} =5V	250 ~ 460	OOK/ASK	L-C	1.8	-103	18 20	SOP SSOP

RF IC Series

Transmitter IC

Market Applications

- ◆ Remote Keyless Entry (RKE)
- ◆ Remote Control/Sensor
- ◆ Family Radio Service (FRS)
- ◆ Home Security
- ◆ Wireless Audio (Analog)



Transmitter IC

Part No.	Voltage Range (V)	Current Consumption (mA)	Frequency Range (MHz)	Modulation Type	Oscillator Type	Data Rate (bps)	Output Power (dBm)	Pin Count	Package
PT4450	2.2 ~ 3.6	18 at $V_{DD}=3V$	250 ~ 500	OOK/ASK	SAW Resonator	< 50K	10	6	SOT-23
PT4452	2.4 ~ 3.6	17 at $V_{DD}=3V$	300 ~ 450	OOK/ASK/FSK	PLL	< 10K@FSK, < 50K@ASK	11	8	SOP
PT4455	2.2 ~ 3.6	17 at $V_{DD}=3V$	300 ~ 450	OOK/ASK	PLL	< 50K	11	6	SOT-23
PT4456	2.2 ~ 3.6	17 at $V_{DD}=3V$	300 ~ 450	FSK	PLL	<10K	11	6	SOT-23

Encoder IC Series

Encoder IC

Market Applications

- ◆ Remote Security System
- ◆ Object Finder
- ◆ Home/Office Security System
- ◆ Remote Power Switch
- ◆ Garage Door Controller
- ◆ Toy Remote Control



Programmable Polyfuse Encoder IC

Part No.	Code Combination	Power Supply (V)	Data Pin	Data Bit	Trigger Mode	Application Circuit	Pin Count	Package
PT2240B	2 ²⁰	1.8 ~ 15	4	1, 0	Data	v	8	SOP

Fixed Code Encoder IC

Part No.	Code Combination	Power Supply (V)	Address Bit	Data Pin	Trigger Mode	Application Circuit	Pin Count	Package
PT2260	3 ¹⁰	1.8 ~ 10	0, 1, f	2, 4	Data	v	16	DIP, SOP

Automotive Solution

For Automotive applications, PTC provides the following product list.

Product Category		Product Number					
Display Driver IC Series	LCD Common + Segment Driver IC	PT6533	PT6578	PT16576			
	LCD Common + Segment (for 3.3V MCU Interface) Driver IC	PT16511	PT16512	PT16514	PT16517	PT16527	PT16528
		PT16556	PT16557	PT16580	PT16581	PT16589	PT16516
	LCD Character Driver IC	PT16588					
	OLED Dot Matrix Driver / Controller IC	PT16824	PT16825	PT16826*			
OLED Segment Type Driver / Controller IC	PT16821						
TFT LCD Driver IC Series	Gate Driver IC	PT16005	PT16007				
	Source Driver IC	PT16102	PT16103	PT16105	PT16106	PT16107	
	Controller Driver IC	PT16203	PT16205	PT16206*	PT16207*		
LED Driver IC Series	LED Backlight Driver IC	PT16972					
	LED Driver IC (for Car Lighting)	PT16750	PT16751	PT16752	PT16753	PT16755*	PT16974
		PT16976	PT16977*	PT16978*			
LED Driver IC (for Car Cluster)	PT16940	PT16941					
Multi-Media Audio IC Series	Audio Processor (for Car Audio)	PT12313	PT12913	PT12916	PT12917	PT12919	
	Power Amplifier (for Car Audio)	PT2929					
Motor Driver IC Series	DC Motor Driver	PT12464	PT12482	PT12490*	PT12491*		
	Stepping Motor Driver	PT12469	PT12477				
DC/DC Converter	Synchronous Step Down Converterer	PT16754*					

Note *: This product is currently under development.