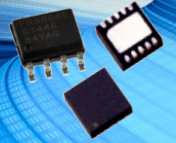


Selection Guide



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深圳力基科技有限公司

Selection Guide

HV Buck DC/DC Converter

| Part No. | Key Features | Type | V _{IN} (V) | V _{OUT} (V) | I _{OUT} (mA) | Eff.% Max. | Freq. (KHz) | I _q (μA) | I _s (μA) | Shut Down | OCP | Package |
|--------------------|--|----------|---------------------|---------------------------|-----------------------|------------|-------------|---------------------|---------------------|-----------|-----|---------------------|
| FR9801 | Sync. 2A Buck Internal Comp. Converter | HV Sync. | 4.5~21 | 0.8~17.85 | 2000 | 94 | 600 | 2500 | 1 | V | V | SOT-23-6 |
| FR9802 | Sync. 1.5A Buck Internal Comp. Converter | HV Sync. | 4.5~21 | 0.8~16.8 | 1500 | 94 | 1200 | 2500 | 1 | V | V | SOT-23-6 |
| FR9801E | Sync. 2A Buck Internal Comp. Converter | HV Sync. | 4.5~18 | 0.8~Vin (Max.) x0.85 | 2000 | 94 | 600 | 2500 | 1 | V | V | SOT-23-6 |
| FR9886 | Sync. 2.5A Buck Internal Comp. Converter | HV Sync. | 4.5~23 | 0.925~20 | 2500 | 96 | 340 | 2500 | 1 | V | V | SOP-8 SOP-8 (EP) |
| FR9886A | Sync. 2A Buck Internal Comp. Converter | HV Sync. | 4.5~21 | 0.925~14.5 | 2000 | 91 | 1200 | 3500 | 1 | V | V | SOP-8 (EP) |
| FR9886C | Sync. 2A Buck External Comp. Converter | HV Sync. | 4.5~21 | 0.925~17.85 | 2000 | 90 | 340 | 2000 | 1 | V | V | SOP-8 SOP-8 (EP) |
| FR9886D | Sync. 2A/2.5A Buck Internal Comp. Converter | HV Sync. | 4.5~23 | 0.925~Vin (Max.) x0.85 | 2000/ 2500 | 95 | 340 | 2000 | 1 | V | V | SOP-8 SOP-8 (EP) |
| FR9886E | Sync. 2A Buck Internal Comp. Converter | HV Sync. | 4.5~18 | 0.925~Vin (Max.) x0.85 | 2000 | 96 | 340 | 2000 | 1 | V | V | SOP-8 |
| FR8209 | Sync. 3A Buck Internal Comp. Converter with High Efficiency at Light Load | HV Sync. | 4.5~23 | 0.765~18.4 | 3000 | 95 | 650 | 2000 | 1 | V | V | SOP-8 (EP) |
| New FR9202T | 17V, 2A Synchronous Step-Down DC/DC Converter with High Efficiency at Light Load | HV Sync. | 4.5~17 | 0.765V to 8V | 2000 | 94 | 850 | 300 | 1 | V | V | SOT-23-6 |
| New FR9202F | 17V, 2A Synchronous Step-Down DC/DC Converter | HV Sync. | 4.5~17 | 0.765V to 8V | 2000 | 94 | 850 | 300 | 1 | V | V | SOT-23-6 |
| FR9887 | Sync. 2A Buck Internal Comp. Converter with High Efficiency at Light Load | HV Sync. | 4.5~23 | 0.925~Vin (Max.) x0.85 | 2000 | 95 | 340 | 2000 | 1 | V | V | SOP-8 SOP-8 (EP) |
| FR9889 | Sync. 3A Buck Internal Comp. Converter with High Efficiency at Light Load | HV Sync. | 4.5~23 | 0.925~Vin (Max.) x0.85 | 3000 | 95 | 340 | 2000 | 1 | V | V | SOP-8 (EP) |
| FR9889C | Sync. 3A Buck Converter with High Efficiency at Light Load External Comp. | HV Sync. | 4.5~23 | 0.925~Vin (Max.) x0.85 | 3000 | 95 | 340 | 2000 | 1 | V | V | SOP-8 (EP) |
| FR9888 | Sync. 3.5A Buck Internal Comp. Converter | HV Sync. | 4.5~23 | 0.925~20 | 3500 | 96 | 340 | 2500 | 1 | V | V | SOP-8 (EP) |
| FR9888A | Sync. 3A Buck Converter | HV Sync. | 6~21 | 0.925~14.5 | 3000 | 91 | 1200 | 3500 | 1 | V | V | SOP-8 (EP) |
| FR9888C | Sync. 3.5A Buck External Comp. Converter | HV Sync. | 4.5~23 | 0.925~20 | 3500 | 96 | 340 | 2500 | 1 | V | V | SOP-8 (EP) |
| FR9888E | Sync. 3A Buck Internal Comp. Converter | HV Sync. | 4.5~18 | 0.925~Vin (Max.) x0.85 | 3000 | 96 | 340 | 2500 | 1 | V | V | SOP-8 (EP) |
| FR9808 | Sync. 4A Buck Internal Comp. Converter | HV Sync. | 4.75~21 | 0.8~Vin (Max.) x0.85 | 4000 | 90 | 500/ ADJ | 1100 | 1 | V | V | SOP-8 (EP) |
| FR9809 | Sync. 5A Buck Internal Comp. Converter | HV Sync. | 4.75~21 | 0.8~Vin (Max.) x0.85 | 5000 | 90 | 500/ ADJ | 1100 | 1 | V | V | SOP-8 (EP) |
| FR9618 | Sync. 3A Buck Internal Comp. Converter | HV Sync. | 4.5~23 | 0.925~20 | 3000 | 96 | 340 | 2500 | 1 | V | V | SOP-8 (EP) |
| FR9618A | Sync. 3A Buck Internal Comp. Converter | HV Sync. | 4.5~23 | 0.925~20 | 3000 | 96 | 240 | 2500 | 1 | V | V | SOP-8 (EP) |
| FR9618C | Sync. 3A Buck External Comp. Converter | HV Sync. | 4.5~23 | 0.925~20 | 3000 | 96 | 340 | 2500 | 1 | V | V | SOP-8 (EP) |
| FR8018 | Sync. 4A Buck Internal Comp. Converter with High Efficiency at Light Load | HV Sync. | 4.5~23 | 0.765~Vin (Max.) x0.85 | 4000 | 95 | 500 | 2000 | 1 | V | V | SOP-8 (EP) |
| FR9881 | Sync. 2A Buck Internal Comp. Converter with High Efficiency at Light Load | HV Sync. | 4.5~18 | 0.6~Vin (Max.) x0.85 | 2000 | 90 | 500 | 1000 | 1 | V | V | SOT-23-6 |
| FR9881A | Sync. 2A Buck Internal Comp. Converter with High Efficiency at Light Load | HV Sync. | 4.5~18 | 0.6~Vin (Max.) x0.85 | 2000 | 90 | 1000 | 1000 | 1 | V | V | SOT-23-6 |
| FR9883 | Sync. 2A Buck Internal Comp. Converter with High Efficiency at Light Load | HV Sync. | 4.5~18 | 0.8~Vin (Max.) x0.85 | 2000 | 90 | 500 | 1000 | 1 | V | V | SOT-23-6 |
| FR9883A | Sync. 2A Buck Internal Comp. Converter with High Efficiency at Light Load | HV Sync. | 4.5~18 | 0.8~Vin (Max.) x0.85 | 2000 | 90 | 1000 | 1000 | 1 | V | V | SOT-23-6 |
| FR9885 | Sync. 2A Buck Internal Comp. Converter with High Efficiency at Light Load | HV Sync. | 4.5~18 | 0.6~Vin (Max.) x0.85 | 2000 | 90 | 500 | 1000 | 1 | V | V | SOT-23-6 |

HV Buck DC/DC Converter

Selection Guide

| Part No. | Key Features | Type | V _{IN} (V) | V _{OUT} (V) | I _{OUT} (mA) | Eff.% Max. | Freq. (KHz) | I _q (μA) | I _s (μA) | Shut Down | OCP | Package |
|--------------------------------|---|-------------|---------------------|----------------------|-----------------------|------------|-------------|---------------------|---------------------|-----------|-----|----------------------------|
| New FR9852 | 17V, 2A Synchronous Step-Down DC/DC Converter with High Efficiency at Light Load | HV Sync. | 4.5~17 | 0.8V to 8V | 2000 | 95 | 500 | 400 | 1 | V | V | SOT-23-6 SOT563 |
| New FR9853P | 17V, 3A Synchronous Step-Down DC/DC Converter | HV Sync. | 4.5~17 | 0.8V to 8V | 3000 | 95 | 500 | 400 | 1 | V | V | SOT563 |
| New FR9853T | 17V, 3A Synchronous Step-Down DC/DC Converter with High Efficiency at Light Load | HV Sync. | 4.5~17 | 0.765V to 8V | 3000 | 94 | 500 | 400 | 1 | V | V | SOT-23-6 |
| New FR9853F | 17V, 3A Synchronous Step-Down DC/DC Converter | HV Sync. | 4.5~17 | 0.765V to 8V | 3000 | 94 | 500 | 400 | 1 | V | V | SOT-23-6 |
| FR9854 | Sync. 4A Buck Internal Comp. Converter with fast constant on time control technique (FCOT) | HV Sync. | 4.5~18 | 0.765~8V | 4000 | 94 | 630 | 600 | 1 | V | V | SOP-8 (EP) TQFN-16 (3x3) |
| FR9855 | Sync. 5.5A Buck Internal Comp. Converter with fast constant on time control technique (FCOT) External SS/PG | HV Sync. | 4.5~18 | 0.765~8V | 5500 | 94 | 630 | 600 | 1 | V | V | SOP-8 (EP) TDFN-10 (3x3) |
| FR9855B | Sync. 5.5A Buck Internal Comp. Converter with fast constant on time control technique (FCOT) External VREG/PG | HV Sync. | 4.5~18 | 0.765~8V | 5500 | 94 | 630 | 600 | 1 | V | V | SOP-8 (EP) |
| New FR9856B | Sync. 6A Buck Internal Comp. Converter with fast constant on time control technique (FCOT) External VREG/PG | HV Sync. | 4.5~18 | 0.765~8V | 6000 | 94 | 630 | 600 | 1 | V | V | SOP-8 (EP) |
| FR8203 | Sync. 2.5A Buck Internal Comp. Converter with High Efficiency at Light Load | HV Sync. | 4.5~18 | 0.6~Vin (Max.) x0.85 | 2500 | 94 | 500 | 1000 | 1 | V | V | SOT-23-6 (FC) |
| FR8204 | Sync. 2A Buck Internal Comp. Converter with High Efficiency at Light Load | HV Sync. | 4.5~18 | 0.8~Vin (Max.) x0.85 | 2000 | 95 | 500 | 1000 | 1 | V | V | SOT-23-6 (FC) |
| FR8205 | Sync. 3A Buck Internal Comp. Converter with High Efficiency at Light Load | HV Sync. | 4.5~18 | 0.6~Vin (Max.) x0.85 | 3000 | 94 | 500 | 1000 | 1 | V | V | SOT-23-6 (FC) |
| FR8205A | Sync. 3A Buck Internal Comp. Converter with High Efficiency at Light Load | HV Sync. | 4.5~18 | 0.6~Vin (Max.) x0.85 | 3000 | 94 | 1000 | 1000 | 1 | V | V | SOT-23-6 (FC) |
| FR8206 | Sync. 3A Buck Internal Comp. Converter with High Efficiency at Light Load | HV Sync. | 4.5~18 | 0.8~Vin (Max.) x0.85 | 3000 | 95 | 500 | 1000 | 1 | V | V | SOT-23-6 (FC) |
| FR8206A | Sync. 3A Buck Internal Comp. Converter with High Efficiency at Light Load | HV Sync. | 4.5~18 | 0.8~Vin (Max.) x0.85 | 3000 | 91 | 1000 | 1000 | 1 | V | V | SOT-23-6 (FC) |
| LV Buck DC/DC Converter | | | | | | | | | | | | |
| Part No. | Key Features | Type | V _{IN} (V) | V _{OUT} (V) | I _{OUT} (mA) | Eff.% Max. | Freq. (KHz) | I _q (μA) | I _s (μA) | Shut Down | OCP | Package |
| New FP6335 | 1.2A High Efficiency Sync. Buck Converter, Pure PWM | Low V Sync. | 2.5~6.0 | 0.6~Vin | 1200 | 95 | 1500 | 400 | 0.1 | V | V | SOT-23-5/6 |
| New FP6356 | 2A High Efficiency Sync. Buck Converter, Pure PWM | Low V Sync. | 2.5~6.0 | 0.6~Vin | 2000 | 95 | 1000 | 400 | 0.1 | V | V | SOT-23-5/6 |
| FP6357 | 1.2A High Efficiency Sync. Buck Converter, Pure PWM | Low V Sync. | 2.5~6.0 | 0.6~Vin | 1200 | 95 | 1500 | 80 | 0.1 | V | V | SOT-23-5 |
| FP6358 | 2A High Efficiency Sync. Buck Converter, Pure PWM | Low V Sync. | 2.5~6.0 | 0.6~Vin | 2000 | 95 | 1500 | 80 | 0.1 | V | V | SOT-23-5 |
| FP6359 | 3A High Efficiency Sync. Buck Converter, Pure PWM | Low V Sync. | 2.5~6.0 | 0.6~Vin | 3000 | 95 | 1000 | 80 | 0.1 | V | V | SOT-23-5 |
| FP6360 | 1A High Efficiency Sync. Buck Converter, Pure PWM | Low V Sync. | 2.5~5.5 | 0.6~Vin | 1000 | 95 | 1500 | 50 | 0.1 | V | V | TDFN-6 (2x2) TQFN-16 (3x3) |
| FP6372 | 3.5A High Efficiency Sync. Buck Converter | Low V Sync. | 2.7~5.5 | 0.6~Vin | 3500 | 96 | 1000 | 80 | 0.1 | V | V | TDFN-10 (3x3) |
| FP6373 | 2.5A High Efficiency Sync. Buck Converter | Low V Sync. | 2.7~5.5 | 0.6~Vin | 2500 | 96 | 1000 | 80 | 0.1 | V | V | SOT-23-6 |

Selection Guide

| | | | | | | | | | | | | |
|------------|--|-------------|---------|---------------------|---------------|----|---------------|----|-----|---|---|----------------------|
| FP6373A | 3A High Efficiency Sync. Buck Converter | Low V Sync. | 2.7-5.5 | 0.6-V _{in} | 3000 | 96 | 1000 | 80 | 0.1 | V | V | SOT-23-6 |
| FP6375 | 2.5A High Efficiency Sync. Buck Converter | Low V Sync. | 2.7-5.5 | 0.6-V _{in} | 2500 | 96 | 1000 | 80 | 0.1 | V | V | SOT-23-5 |
| FP6378A | 2A High Efficiency Sync. Buck Converter | Low V Sync. | 2.5-6.0 | 0.6-V _{in} | 2000 | 95 | 1000 | 80 | 0.1 | V | V | SOT-23-5 SOT-23-6 |
| FP6381 | 1.5A High Efficiency Sync. Buck Converter | Low V Sync. | 2.5-6.0 | 0.6-V _{in} | 1500 | 95 | 1500 | 80 | 0.1 | V | V | TDFN-6 (2x2) |
| FP6381A | 1.2A High Efficiency Sync. Buck Converter | Low V Sync. | 2.5-6.0 | 0.6-V _{in} | 1200 | 95 | 1500 | 80 | 0.1 | V | V | SOT-23-5 |
| FP6382 | Dual 1A High Efficiency Sync. Buck Converter | Low V Sync. | 2.7-5.5 | 0.6-V _{in} | 1000+ 1000 | 95 | 1500+ 1000 | 80 | 0.1 | V | V | TDFN-12 (3x3) |
| FP6385 | 3A High Efficiency Sync. Buck Converter | Low V Sync. | 2.5-6.0 | 0.6-V _{in} | 3000 | 95 | 1000 | 80 | 0.1 | V | V | SOT-23-6 (FC) |
| New FP6396 | 1.2A High Efficiency Sync. Buck Converter | Low V Sync. | 2.5-6.0 | 0.6-V _{in} | 1200 | 95 | 1500 | 30 | 0.1 | V | V | SOT-23-5/6 |
| New FP6397 | 2A High Efficiency Sync. Buck Converter | Low V Sync. | 2.5-6.0 | 0.6-V _{in} | 2000 | 95 | 1000 | 40 | 0.1 | V | V | SOT-23-5/6 |

Boost DC/DC Converter

| Part No. | Key Features | V _{IN} (V) | V _{OUT} (V) | I Limit (mA) | Eff.% Max. | Freq. (KHz) | I _q (μA) | I _s (μA) | Shut Down | OTP | Package |
|--------------|---|-----------------------|----------------------|--------------|------------|-------------|---------------------|---------------------|-----------|-----|-----------------------------------|
| FP6711 | Low Start-up Sync. Boost Converter, Automatically PWM or PFM Mode | 0.85-V _{out} | 1.8-4 | 1000 | 94 | 500 | 25 | 1 | V | V | MSOP-10 |
| FP6713 | Low Start-up Sync. Boost Converter, Automatically PWM or PFM Mode | 0.85-V _{out} | 1.8-3.8 | 500 | 94 | 1000 | 25 | 1 | V | V | SOT-23-6 |
| FP6713A | Low Start-up Sync. Boost Converter, Automatically PWM or PFM Mode | 0.85-V _{out} | 1.8-3.8 | 750 | 94 | 1000 | 25 | 1 | V | V | SOT-23-6 |
| FP6714 | Low Start-up Sync. Boost Converter, Automatically PWM or PFM Mode | 0.85-V _{out} | 1.8-3.8 | 750 | 94 | 1000 | 25 | 1 | V | V | SOT-23-6 |
| FP6715 | Low Start-up Sync. Boost Converter, Automatically PWM or PFM Mode | 1.9-V _{out} | 1.9-5.25 | 2500 | 93 | 550 | 25 | 1 | V | V | SOT-23-6 |
| FP6716 | High Efficiency, Sync. Boost Converter, Automatically PWM or PFM Mode | 2.5-V _{out} | 2.5-5.25 | ADJ (6A) | 90 | 550 | 30 | 1 | V | V | SOP-8 (EP) |
| FP6717 | High Efficiency, Sync. Boost Converter, Automatically PWM or PFM Mode | 2.5-V _{out} | 2.5-5.25 | ADJ (8A) | 90 | 550 | 30 | 1 | V | V | SOP-8 (EP) |
| New FP6722 | Low Quiescent Current Boost Converter | 0.7-5.5 | 1.8-5.5 | 500 | 96 | - | 5 | 1 | V | V | SOT-23-6 |
| New FP6723/A | Low Quiescent Current Boost Converter | 0.7-5.5 | 3/3.3 | 350 | 96 | - | 5.5 | 1 | V | V | SOT-23-6 |
| FP6730 | Large Input Voltage Range, Current Mode Step-up Converter | 3-24 | V _{in} -24 | 2500 | 93 | 1000 | 120 | 1 | V | - | SOT-23-5 SOT-23-6 |
| FP6733 | Low V _{in} Stratup PWM Controlled, Step-up DC/DC Converter | 0.9-5.5 | 2.9-5.5 | 1000 | 90 | 550 | 17 | 0.1 | V | V | SOT-23-6 TSOT-23-6 |
| FP6736 | Current Mode Step-up Converter | 2.5-5.5 | V _{in} -30 | 600 | 90 | 1400 | 75 | 0.1 | V | - | SOT-23-5 SOT-23-6 TSOT-23-5 |
| FP6790 | 1.6A, 0.25Ohm Switch MOSFET, Soft-start, Low Noise | 2.6-5.5 | V _{in} -12 | 1600 | 90 | 640/1200 | 160 | 0.1 | V | V | MSOP-8 |
| FP6795 | Low Noise Step-up Converter, 2A, 0.16Ohm Switch MOSFET | 2.6-5.5 | V _{in} -16 | 2000 | 90 | 640/1200 | 160 | 0.1 | V | V | MSOP-8 (EP) |
| FP67380 | 1Mhz 2.5A Current-Mode Step-Up DC/DC Converter | 3-24 | V _{in} -24 | 2500 | 95 | 1000 | 250 | 0.1 | V | V | TDFN-6 (2x2) |

Boost DC/DC Controller

| Part No. | Key Features | V _{IN} (V) | V _{OUT} (V) | I Limit (mA) | Eff.% Max. | Freq. (KHz) | I _q (μA) | I _s (μA) | Shut Down | OTP | Package |
|----------|-------------------|---------------------|----------------------|--------------|------------|-------------|---------------------|---------------------|-----------|-----|---------|
| FP6791C | Ext. Switch, UVLO | 2.6-6 | Upon MOSFET Power | - | 90 | ADJ | 700 | - | - | - | TSSOP-8 |

P-Gamma

| Part No. | Key Features | Channel No. | Resolution | Interface | Package |
|-------------|--|-------------|------------|------------------|---------------|
| FP7701 | Programmable Gamma with I ² C Interface and Level Shifter | 10 | 10 | I ² C | TQFN-56 (8x8) |
| New FP7703B | Programmable Gamma with I ² C Interface | 14 | 9 | I ² C | TQFN-28 (5x5) |

LCD Bias Power

| Part No. | Key Features | V _{IN} (V) | V _{OUT} (V) | I Limit (mA) | Eff.% Max. | Freq. (KHz) | I _q (μA) | I _s (μA) | Shut Down | OVP | Package |
|----------|--|---------------------|----------------------|--------------|------------|-------------|---------------------|---------------------|-----------|-----|--------------------------------|
| FP6783 | Bias Power for TFT LCD of Tablet/ NB/Monitor | 2.5-5.5 | V _{in} -18 | 4500 | 92 | 1200 | 5600 | 560 | - | V | TQFN-20 (5x5) |
| FP6787 | Bias Power for TFT LCD of NB/Monitor with Vcom, Reset and LDO (3.3V) | 2.7-5.5 | V _{in} -14 | 3000 | 92 | 640 | 1000 | - | - | V | TSSOP-20 (EP) TQFN-20 (4x4) |

Selection Guide

| New | FP6787A | Bias Power for TFT LCD of NB/Monitor with Vcom, Reset and LDO (2.5V) | 2.7-5.5 | Vin-14 | 3000 | 92 | 640 | 1000 | - | - | V | TSSOP-20 (EP) TQFN-20 (4x4) |
|-------------------------|---|---|--------------------------|---|--------------------------|-----------------------------|---------------------|--------------------------------|-----------|-----|----------------------|--------------------------------|
| | FP7710B | Bias Power for GOP TFT LCD Application of NB/Monitor with Reset and Level Shifter | 3-6 | 7-18 | 4600 | 90 | 640/1200 | 1440 | 750 | V | V | TQFN-46 (6.5x4.5) |
| LCD Bias Power | | | | | | | | | | | | |
| Part No. | Key Features | V _{IN} (V) | V _{OUT} (V) | I Limit (mA) | Eff.% Max. | Freq. (KHz) | I _q (μA) | I _s (μA) | Shut Down | OVP | Package | |
| FP7720 | Dual Channel Output LCD Bias Power | 2.5-5.5 | 5.0V,5.1V,5.5V | 1500 | 88 | 1000 | 1000 | - | - | V | CSP-15 (1.4x2.3) | |
| FP7721 | Integrated Switch Dual 100mA Channel Charge Pump | 2.5-4.8 | 2xVin | - | 92 | 600KHz | - | 2 | - | V | TDFN-12 (2.4x1.5) | |
| FP7723 | Integrated Switch Dual 50mA Channel Charge Pump | 2.5-4.8 | 2xVin | - | 85 | - | - | 5 | - | V | TDFN-12 (3.0x1.5) | |
| New | FP7631 | Display PMIC for TFT LCD TV Panels | 8-16.5 | 13.5-19.8 | 2500 | 960KHz-1440KHz, 1.2MHz typ. | - | - | - | - | TQFN-48 (5x5) | |
| New | JD7636 | TFT-LCD PMIC with Programmable Output Buffer and 12 Channels Level Shifter for GOP Monitor panels | 3.5-6 | 10-18 | 3500 | 90 | 960-1440 | - | - | V | V | TQFN-56 (7x7) |
| New | FP9929A | Power Supplier Solution with I2C Interface for EPD Panels, with VGH, VGL, VPOS, VNEG, VREF and VCOM Buffer | 2.7-5.5 | ±15 20-30.5 -25--20 | 5000 | - | - | - | - | - | TQFN-32 (5x5) | |
| | FP9928A | Power Supplier Solution with I ² C Interface for EPD Panels, with VGH, VGL, VPOS, VNEG, VREF and VCOM Buffer | 2.5-5.5 | Vin-20 | 800 | 90 | PFM | - | 0.1 | - | - | TQFN-24 (4x4) |
| Level Shifter | | | | | | | | | | | | |
| Part No. | Key Features | V _{GH} (V) Min. | V _{GH} (V) Max. | V _{GL} (V) Min. | V _{GL} (V) Max. | Channel No. | Shut Down | Package | | | | |
| FP7732 | 10-Channel Level-Shifter with Charge-Sharing Function for GOP TFT LCD Panel | 16 | 45 | -20 | -3 | 10 | V | TQFN-32 (4x4) TQFN-28 (4x4) | | | | |
| New | FP7665 | 8-Channel Level-Shifter with Charge-Sharing Functions for GOP TFT LCD Panel | 4.7 | 40 | - | - | - | TQFN-28 (4x4) | | | | |
| USB Power Switch | | | | | | | | | | | | |
| Part No. | Output Current (A) | Channel No. | V _{IN} (V) | Current Limit Type (A) | RDS(ON) (mΩ) | Package | | | | | | |
| FP6861C | 0.55, 0.7, 1.1, 1.5 1.9, 2.1, 2.5, 3 (min) | 1 | 2.7-5.5 | 0.775, 1, 1.25, 1.4, 1.75 2.15, 2.45, 2.9, 3.5 | 70/100 | SOT-23-5 SOP-8 MSOP-8 | | | | | | |
| FP6861D | 1.5 (min) | 2 | 2.7-5.5 | 1.75 | 100 | SOP-8 | | | | | | |
| FP6861E-A/B | Adjustable | 1 | 2.7-5.5 | 0.12-0.17 | 100 | SOT-23-6 TDFN-6 (2x2) | | | | | | |
| FP6861E-C/E/F/H | 0.7,1.1, 1.5, 2.1 (min) | 1 | 2.7-5.5 | 1, 1.4, 1.75, 2.45 | 110 | SOT-23-5 | | | | | | |
| FP6861F | VIN=5V, Current Limit: 0.8A-3.04A VIN=9V, Current Limit: 0.54A-2.04A VIN=12V, Current Limit: 0.4A-1.52A | 1 | 5-12 | VIN=5V, Current Limit: 0.8A-3.04A VIN=9V, Current Limit: 0.54A-2.04A VIN=12V, Current Limit: 0.4A-1.52A | 70 | SOP-8 (EP) TDFN-6 (2x2) | | | | | | |
| New | FP6861G | 2.0, 2.5, 3.0 | 1 | 2.5-5.5 | 2.6, 3.0, 3.76 | 45 | SOT-23-5 (FC) | | | | | |
| Load Switch | | | | | | | | | | | | |
| Part No. | Output Current (A) | Channel No. | V _{IN} (V) | Current Limit Type (A) | RDS(ON) (mΩ) | Package | | | | | | |
| FP6863 | 1.5 (min) | 1 | 2.0-5.5 | 2.5 | 80 | TDFN-8 (2x2) SOT-23-5 | | | | | | |
| Motor Driver | | | | | | | | | | | | |
| Part No. | Key Features | VIN (V) Range | Output Current (mA) | Control Volt. Range (V) / Interface | Compatible Interface | Thermal Shut Down | Package | | | | | |
| FP5501 | Low-saturation, Low-voltage 2 Channels Bi-directional | 1.8-5.5 | 0-400/ Channel | 1.8-5.5 | - | V | TDFN-10 (3x3) | | | | | |
| FP5502 | Low-saturation, Low-voltage Bi-directional | 1.8-5.5 | 0-400 | 1.8-5.5 | - | V | SOT-23-6 | | | | | |

Selection Guide

| | | | | | | | | |
|-----|-----------|--|---------|-----------------------|--------------------------|--|---|--------------|
| | FP5510E/F | 10-bit Resolution DAC, Power On Reset Power Down Current < 80nA Power Down Control Circuit Integrated Current Sense Resistor Selectable Output Slope Control | 2.3~3.6 | 0~120 Current Sink | 1.8~3.3 2-Wire Serial | I ² C | - | 6-ball WLCSP |
| New | FP5510H | 10-bit Resolution DAC, Power On Reset Power Down Current < 80nA Power Down Control Circuit Integrated Current Sense Resistor Selectable Output Slope Control | 2.3~3.6 | 0~150 Current Sink | 1.8~3.3 2-Wire Serial | I ² C | - | 6-ball WLCSP |
| New | FP5510M | 10-bit Resolution DAC, Power On Reset Power Down Current < 80nA Power Down Control Circuit Integrated Current Sense Resistor Selectable Output Slope Control Multi I2C Address | 2.3~3.6 | 0~120 Current Sink | 1.8~3.3 2-Wire Serial | I ² C (Multi Selectable) | - | 6-ball WLCSP |
| New | FP5513 | 10-bit Resolution DAC, Power On Reset Power Down Current < 80nA Power Down Control Circuit Integrated Current Sense Resistor Selectable Output Slope Control | 2.3~3.6 | 0~120 Current Sink | 1.8~3.3 2-Wire Serial | I ² C | - | 6-ball WLCSP |

Motor Driver

| Part No. | Key Features | V _{IN} (V) Range | Output Current (mA) | Control Volt. Range (V) / Interface | Compatible Interface | Thermal Shut Down | Package |
|-----------|--|---------------------------|---------------------|-------------------------------------|----------------------|-------------------|---------------------|
| FP5516W | 10-bit DAC H-bridge bi-directional driver | 2.3-4.8 | +/-100 | 1.8~3.3 2-Wire Serial | I ² C | | 6-ball WLCSP |
| FP5516S | 10-bit DAC H-bridge bi-directional driver | 2.3-4.8 | +/-120 | 1.8~3.3 2-Wire Serial | I ² C | | 6-ball WLCSP |
| FP5518 | 10-bit DAC VCM driver with 8K eflash | 2.3~3.3 | 0~100 | 1.8~3.3 2-Wire Serial | I ² C | | 8-ball WLCSP |
| FP5519 | 10-bit DAC VCM driver with 10K EEPROM | 2.3~3.3 | 0~100 | 1.8~3.3 2-Wire Serial | I ² C | | 6-ball WLCSP |
| FP5519E/F | 10-bit DAC VCM driver Integrated 10K EEPROM Power On Reset Power Down Control Circuit Integrated Current Sense Resistor Selectable Output Slope Control | 2.65~3.3 | 0~100 | 1.8~3.3 2-Wire Serial | I ² C | | 6-ball WLCSP |
| FP5520 | 10-bit DAC H-bridge bi-directional driver with 8K eFlash | 2.3~3.3 | +/-100 | 1.8~3.3 2-Wire Serial | I ² C | | 8-ball WLCSP |
| FP5529 | 10-bit DAC VCM driver with 16K EEPROM | 2.3~3.3 | 0~100 | 1.8~3.3 2-Wire Serial | I ² C | | 6-ball WLCSP |
| FP5530 | Dual H-Bridge Motor Driver Driver Two DC Motors or One Stepper Motor | 2.7~10.8V | 0~1000 | 0~5.5 PWM | | 150C | TSSOP-16 TQFN-16 |

Low Dropout Regulator

| Part No. | Key Features | I _{OUT} (mA) | V _{IN} (V) | V _{drop} (mV) | V _{OUT} (V) | Accuracy | I _q (μA) | I _s (μA) | Shut Down | OTP | OCP | Package |
|----------|--|-----------------------|---------------------|------------------------|---|----------|---------------------|---------------------|-----------|-----|-----|---|
| FP6121 | Dual Output, High PSRR 70dB | 300 + 300 | 2.0~5.5 | 400 | A (3.3, 2.8) D (2.5, 1.8) F (1.8, 2.8) H (1.5, 2.8) J (1.3, 2.8) L (1.8, 2.6) N (2.8, 3.3) P (2.85, 2.85) S (1.2, 3.3) V (3.3, 3.3) C (2.8, 1.8) E (3.0, 1.8) G (2.8, 2.8) I (1.8, 3.3) K (1.2, 2.8) M (1.8, 3.0) O (1.8, 1.8) Q (1.5, 3.0) T (3.0, 2.85) | ±2% | 25 | 1 | V | V | V | SOT-23-6 TSOT-23-6 TDFN-6 (1.6x1.6) |
| FP6131 | Low ESR Cap | 600 | 2.8~5.5 | 600 | 1.5, 1.8, 2.5, 2.7, 2.8, 3.0, 3.3, 3.6 | ±2% | 30 | - | - | V | V | SOT-23-3 SOT-89 |
| FP6132 | Low ESR Cap | 600 | 2.8~5.5 | 600 | 1.5, 1.8, 2.5, 2.6, 2.7, 2.8, 3.0, 3.3, 3.6, 3.8 | ±2% | 30 | - | - | V | V | SOT-89 |
| FP6134 | Low ESR Cap | 600 | 2.8~5.5 | 600 | 1.5, 1.8, 2.5, 2.8, 3.0, 3.1, 3.3 | ±2% | 30 | 0.1 | V | V | V | SOT-23-5 |
| FP6136 | 1A CMOS | 1000 | 2.8~5.5 | 1100 | 1.5, 1.8, 2.5, 3.0, 3.3 | ±2% | 35 | - | - | V | V | SOT-223 |
| FP6145B | 2A Ultra-Low Dropout with Low ESR Cap. | 2000 | 1.2~5.5 | 240 | ADJ | ±2% | 1000 | 10 | V | V | V | SOP-8 (EP) |
| FP6146 | Low Noise, High PSRR 70dB | 300 | 2.0~5.5 | 400 | 1.1, 1.2, 1.5, 1.8, 2.5, 2.6, 2.7, 2.8, 3.0, 3.1, 3.3, 3.6 | ±2% | 35 | 0.1 | V | V | V | SOT-23-3 SOT-23-5 SC-82-4 TDFN-6 (1.6x1.6) |
| FP6160 | 150mA, High Voltage LDO | 150 | 5~18 | 500 | ADJ | ±1% | 55 | 1 | V | V | V | SOT-23-5 |
| FP6163 | Very Low Input Voltage | 400 | 1.3~5 | 500 | 1.0, 1.2 | ±1.5% | 48 | 0.1 | V | V | V | SOT-23-5 |

Selection Guide

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|----------------|----------------------------------|-----|---------|-----|--|-----|----|-----|---|---|---|------------------------|
| FP6166 | 600mA, Low Noise, High PSRR 70dB | 600 | 2.0~5.5 | 800 | ADJ | ±2% | 35 | 0.1 | V | V | V | SOT-23-5 SOP-8 |
| FP6182 | 150mA, Low Iq LDO | 150 | 2.7~5.5 | 250 | 1.2, 1.5, 1.8, 2.2, 2.8, 3.3 | ±1% | 1 | 0.1 | V | | V | SOT-23-5 TDFN (1x1) |
| FP6183 | 150mA, Low Iq LDO | 300 | 2.7~5.5 | 250 | 1.0, 1.2, 1.8, 2.2, 2.7, 2.8, 3.0, 3.3 | ±1% | 35 | 0.1 | V | V | V | TDFN (1x1) |
| FP6185 | Low Noise, High PSRR 70dB | 300 | 2.7~5.5 | 250 | 1.2, 1.5, 1.8, 2.8, 2.9, 3.3 | ±2% | 35 | 0.1 | V | V | V | SOT-23-5 |
| FP6186 | Low Noise, High PSRR 75dB | 300 | 2.2~5.5 | 230 | ADJ | ±1% | 60 | 0.1 | V | V | V | SOT-23-5 |
| FP6186A | Low Noise, High PSRR 75dB | 600 | 2.2~5.5 | 400 | ADJ | ±1% | 60 | 0.1 | V | V | V | SOT-23-5 |
| FP6187 | Low Noise, High PSRR 75dB | 300 | 1.5~5.5 | 160 | 1, 1.2, 1.5, 1.8, 2.5, 2.8, 3.3 | ±1% | 45 | 0.1 | V | V | V | SOT-23-5 TDFN (1x1) |
| FP6188 | Low Noise, High PSRR 70dB | 600 | 2.2~5.5 | 250 | 1, 1.2, 1.5, 1.8, 2.5, 2.8, 3.3 | ±1% | 45 | 0.1 | V | V | V | SOT-23-5 |

DDR Bus Terminator

| Part No. | Output Current (Max.) | VIN (V) | Control Volt. | Output Offset Volt. | Load Regulation | Package |
|----------------|-----------------------|---------|---------------|---------------------|-----------------|---|
| FP6137B | ±2A | 1.8/2.5 | 3.3~5.5 | ±20mV | 20mV | TO-252-5 TO-263-5 SOP-8 (Fused) SOP-8 (EP) |

DDR Bus Terminator

| Part No. | Output Current (Max.) | VIN (V) | Control Volt. | Output Offset Volt. | Load Regulation | Package |
|----------------|-----------------------|------------------|---------------|---------------------|-----------------|----------------------------|
| FP6137E | ±2A | 1.5/1.8/2.5 | 3.3~5.5 | ±20mV | 20mV | SOP-8 (EP) |
| FP6137F | ±3A | 1.35/1.5/1.8/2.5 | 3.3~5.5 | ±20mV | 20mV | SOP-8 (EP) TDFN-6 (2x2) |

Li-ion Charger

| Part No. | VIN (V) | IOUT Max. (A) | VOUT TYP. (V) | Vol. Accy. (%) | VSEN | Temp. Sense | Safety Timer | Package |
|---------------|---------|---------------|---------------|----------------|------|-------------|--------------|-------------------------------|
| FP6906 | 4.5~6.5 | 1 | 4.2 ; 4.35 | 1 | V | v | V | SOP-8 SOT-23-5 SOT-23-6 |

USB Dedicated Charging Port Controller

| Part No. | Key Features | VIN (V) Range | BC1.2 | Apple | Samsung | QC2.0 | typeC | PD2.0 | FCP | qc3.0 | PD3.0 (pps) | Package |
|-----------------|--|---------------|-------|-------|---------|-------|-------|-------|-----|-------|-------------|--|
| FP6600Q | 6 in 1 Dedicated Charging Port Controller with FCP, QC 3.0/2.0 Fast Charging Function | 3.2V ~ 6.4V | V | V | V | V | - | - | V | V | - | SOP-8 |
| FP6601Q | 6 in 1 Dedicated Charging Port Controller with FCP, QC 3.0/2.0 Fast Charging Function | 3.2V ~ 6.4V | V | V | V | V | - | - | V | V | - | SOT-23-6 |
| FP6601M | USB Dedicated Charging Port Controller with QC 2.0 Fast Charging Function | 3.2V ~ 6.4V | V | V | V | V | - | - | V | - | - | SOT-23-6 |
| FP6601H | Dedicated Charging Port Controller with FCP, QC2.0 Fast Charging Function (No 12Vout) | 3.2V ~ 6.4V | V | V | V | V | - | - | V | - | - | SOT-23-6 |
| FP6606C | Simply USB Type-C PD 3.0 Protocol Controller with FCP, QC 3.0/2.0 Fast Charging Function | 3.2V ~ 6.8V | V | V | V | V | V | V | V | V | - | SOP-8 (EP) CPC-16 |
| FP6606AC | Simply USB Type-C PD 3.0 Protocol Controller with FCP, QC 3.0/2.0, Supports Type-A and Type-C (1A1C) | 3.2V ~ 6.8V | V | V | V | V | V | V | V | V | - | SSOP-20, TQFN3X3-20 CPC-16, CPC-20 |
| FP6601AA | Dual USB Type-A (A+A) HVDCP Controller with FCP, QC 3.0/2.0 & Plug In/Out Auto Detection | 3.2V ~ 6.8V | V | V | V | V | - | - | V | V | - | CPC-20L |
| FP6601AM | 6 in 1 Dedicated Charging Port Controller with FCP, QC 3.0/2.0, Support Plug in/out Auto Detection & Multi-Ports Control | 3.2V ~ 6.8V | V | V | V | V | - | - | V | V | - | SSOP-10 CPC-16 |
| FP6606 | USB Type-C PD 3.0/PPS, (DRP,DFP,UFP) Controller with QC 4.0+/3.0/2.0, FCP, SCP, BC1.2 & AFC | 3.2V ~ 6.8V | V | V | V | V | V | V | V | V | V | TQFN4x4-16, TQFN4x4-24 |
| FP9936 | Dedicated Charging Port Controller with QC3.0/2.0 Fast Charging Function (No 12Vout) | 3.2V ~ 6.4V | V | V | V | V | - | - | - | V | V | SOT-23-6 |

Selection Guide

Reset IC

| Part No. | Key Features | Threshold Voltage (V) | V _{IN} (V) | Delay Time (mS) | Output | Output Type | Package |
|----------|--|--|---------------------|-----------------|-------------|-------------------------|------------------------------|
| FP6801 | Adjustable Delay Time | 2.1, 2.2, 2.4, 2.5 2.6, 2.7, 2.9, 3.1 | 1.0-5.5 | ADJ | Active Low | Open-Drain Push-Pull | SOT-23-5 SC-82 |
| FP6802 | Ultra-Low Quiescent Current | 2.2, 2.7, 3.2, 3.4 3.5, 3.7, 3.9 | 1.0-5.5 | 0.03 | Active Low | Open-Drain Push-Pull | SOT-23-3 SC-82 |
| FP6803 | Ultra-Low Quiescent Current, Adjustable Delay Time with Manual Reset | 0.9, 1.2, 1.5, 1.8, 2.5 3.0, 3.3, 5.0, ADJ | 1.7-5.5 | 0.75-560 | Active Low | Open-Drain Push-Pull | SOT-23-6 TDFN-6 (2x2) |
| FP6804 | Ultra-Low Quiescent Current, Adjustable Delay Time with Manual Reset | 0.84, 1.12, 1.16, 1.4, 1.67 2.33, 2.79, 3.07, 4.65, ADJ | 1.7-5.5 | 0.75-490 | Active Low | Open-Drain Push-Pull | TSOT-23-6 TDFN-6 (2x2) |
| FP6804A | Reset Circuits and OVP Function With Adjustable Delay Time | ADJ | 1.7-5.5 | 0.75-490 | Active Low | Open-Drain Push-Pull | SOT-23-6 |
| FP6808 | Short Delay Time | 2.3, 2.6, 2.9, 3.1 4.0, 4.4, 4.6 | 1.0-5.5 | 20-60 | Active Low | Open-Drain Push-Pull | SOT-23-5 |
| FP6809 | - | 2.32, 2.63, 2.93, 3.08 4.0, 4.38, 4.63 | 1.0-5.5 | 140-560 | Active Low | Open-Drain Push-Pull | SOT-23-3 |
| FP6810 | - | 2.32, 2.63, 2.93, 3.08, 4.0, 4.38, 4.63 | 1.0-5.5 | 140-560 | Active High | Push-Pull | SOT-23-3 |
| FP6811 | With Manual Reset | 2.32, 2.63, 2.93, 3.08 4.0, 4.38, 4.63 | 1.0-5.5 | 140-560 | Active Low | Open-Drain Push-Pull | SC-82 SOT-143 SOT-23-5 |
| FP6812 | With Manual Reset | 2.32, 2.63, 2.93, 3.08 4.0, 4.38, 4.63 | 1.0-5.5 | 140-560 | Active High | Push-Pull | SOT-23-5 |

White LED Driver

| Part No. | V _{IN} (V) | V _{OUT} (V) Max. | LED Numbers Max. | Driving Type | Brightness Control | Eff. (%) Max. | Freq. (Hz) | OVP | Package |
|------------------------|---------------------|------------------------------|---------------------|------------------------------------|-----------------------|------------------|--------------|-----|---|
| New FP6395 | 2.5-6 | 6 | 2 | Buck | - | 95 | 1.5M | V | TDFN-6 (2x2) |
| FP6745/C | 2.5-5.5 | 40 | 10 | Boost | PWM or Linear | 87 | 1.3M | V | SOT-23-6 TSOT-23-5 TSOT-23-6 |
| FP6751 | 2.5-5.5 | 38 | 10 | Boost | PWM | 87 | 1.3M | V | SOT-23-6 TSOT-23-6 TDFN-6 (2x2) |
| FP6753 (Controller) | 8-35 | ADJ | 18 | Boost | PWM | 90 | 200k | V | SOP-8 SOP-8 (EP) |
| FP6755 | 2.5-5.5 | 29 | 8 | Boost | PWM | 87 | 1.3M | V | SOT-23-6 TSOT-23-6 TDFN-6 (2x2) |
| FP6770 | 2.7-4.5 | 5 | 8 | Charge Pump to Fixed 5V Vout | - | 90 | 2M | - | SOT-23-6 TSOT-23-6 TDFN-6 (1.6x1.6) |
| New FP6771 | 4.2-24 | 40 | 10x6 | Boost with 6 CH Current Balance | 9bit PWM or Linear | 90 | 0.6-2M | - | TQFN-24 (4x4) |
| New FP6772 | 4.2-24 | 40 | | Boost | PWM | 90 | 250K-2036.3K | V | TQFN-20 (3.5x3.5) |
| New FR9708/A | 2.8-24 | 24 | 8 | Buck, Boost, Buck-Boost | PWM or Linear | 95 | 1.2M | V | SOT-23-6 |

Flashlight LED Driver

| Part No. | V _{IN} (V) | V _{OUT} (V) Max. | LED Current (A) | Driving Type | Brightness Control | Eff. (%) Max. | Freq. (Hz) | OVP | Package |
|----------|---------------------|------------------------------|-----------------|---------------------------|-----------------------|------------------|------------|-----|---------------|
| FP6773C | 2.7-5.5 | 5.5 | 1 | Buck/Boost Charge Pump | Flash/Torch | 96 | 2M | - | TDFN-10 (3x3) |