

Infineon's system solution for embedded systems



Infineon's solutions for embedded systems

Modern objects in our daily lives, such as coffee machines, dishwashers and automatic opening systems, need embedded intelligence and power. Designing such devices requires an efficient and easy to implement power supply and a cost effective, versatile and scalable microcontroller platform. With Infineon's solutions you can realize the functions which distinguish your product.

In particular, for designs that need very high efficiency Infineon also delivers complete solutions that include secondary side synchronous rectification. This improves efficiency compared to traditional diode-based rectification.

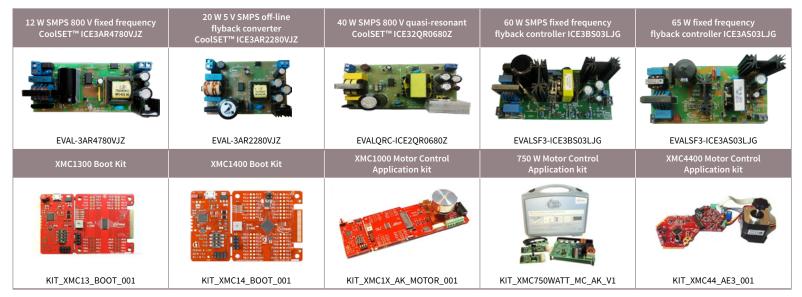
Based on your power and efficiency needs, you can find an optimal ready-to-use solution at Infineon ranging from lowest cost to highest efficiency to highest integration in the given power class.

Full system solution

Infine on is the right partner to make sure you can implement the functions which distinguish your embedded system/product without worrying about designing a complex power supply and/or microcontroller subsystem.

- > Easy-to-use reference solutions and/or building blocks such as power supply, power switches and microcontroller that dramatically cut your time-to-market
- > DAVE[™] 4 free of charge Eclipse-based integrated development environment (IDE) providing extensive, configurable, and reusable code repository for XMC[™] MCUs, supporting the whole development process from evaluation to production

Selection of available evaluation boards for embedded systems



Benefits

- > Very easy to implement
- > Fast time-to-market
- Very flexible solutions from low-cost to highest efficiency
- Solutions designed to fit well into most systems

















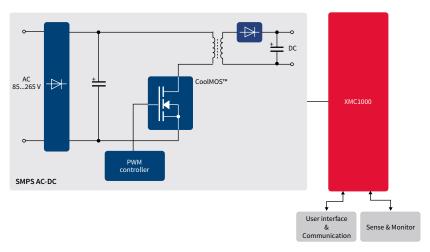


Reliable and durable solutions for embedded systems

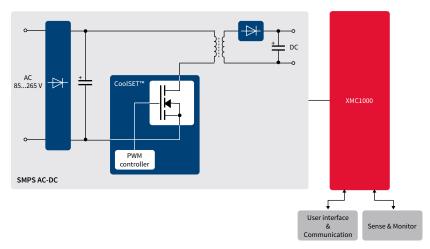
| Flight control | Primary side high voltage MOSFETs | Integrated control and MOSFETs |
|---|---|---|
| Quasi-resonant PWM controller > ICE2QS03G Fixed frequency PWM controller > ICE3AS03LJG > ICE3BS03LJG | 700 V CoolMOS™ CE > IPS70R600CE > IPS70R950CE > IPS70R1K4CE > IPS70R2K0CE 800 V CoolMOS™ CE > IPU80R2K8CE > IPD80R1K4CE > IPD80R1K4CE > IPD80R1K4CE > IPD80R1K4CE | 800 V quasi-resonant CoolSET™ > ICE2QR4780Z > ICE2QR2280Z > ICE2QR0680Z 800 V fixed frequency CoolSET™ > ICE3AR4780VJZ > ICE3AR2280VJZ > ICE3AR1580VJZ > ICE3AR1080VJZ > ICE3AR0680VJZ |
| Secondary side synchronuous rectification ICs Once cycle control PFC IC: IR1153STRPBF Adj. frequency once cycle control PFC: IR1155STRPBF Boost PFC and SMPS control IC: IRS2505LTRPBF 200 V secondary side SR controller: IR1161LTRPBF, IR11662STRPBF 200 V dual SR controller IC: IR11688STRPBF Advanced smart rectifier control IC: IR11672ASTRPBF | Secondary side synchronuous rectification MOSFETs > 60 V and 100 V OptiMOS™ 3 Logic Level > 100 V OptiMOS™ 3 > 40 V to 100 V OptiMOS™ 5 > 40 V to 100 V StrongIRFET™ | Microcontroller XMC1000 microcontroller > XMC1100T016X0064AB > XMC1201T038F0200AB > XMC1302Q040X0200AB > XMC1402F064X0200AA |
| CoolSET™ reference boards > EVALQRC-ICE2QR0680Z > EVALQRC-ICE2QR4780Z > EVALQRC-ICE2QR280Z > EVAL-ICE3AR1080VJZ > EVAL-ICE3AR1580VJZ > EVAL-3AR4780VJZ > EVAL-3AR4780VJZ > EVAL-3AR0680VJZ > EVAL-3AR2280VJZ | PWM IC reference boards > EVALQRS-ICE2QS03G > EVALSF3-ICE3BS03LJG > EVALSF3-ICE3AS03LJG | XMC™ microcontroller reference boards > KIT_XMC13_BOOT_001 > KIT_XMC14_BOOT_001 > KIT_XMC1X_AK_MOTOR_001 > KIT_XMC750WATT_MC_AK_V1 > KIT_XMC44_AE3_001 |

Possible implementations for embedded systems

High flexibility and cost competitive

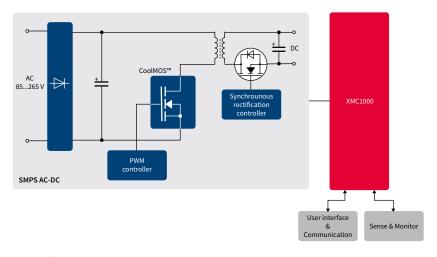


High integration, easy to design and cost competitive

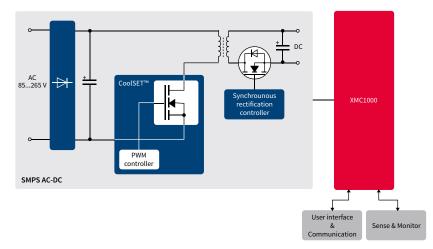


 $Discover\ our\ product\ recommendation\ at:\ www.infineon.com/embedded system$

High efficiency and flexibility



High efficiency and high integration



单击下面可查看定价,库存,交付和生命周期等信息

>>Infineon(英飞凌)