



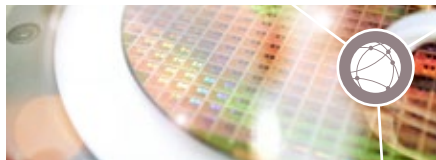
CoolSiC™

CoolGaN™

# In the heart of power: CoolMOS™ 7 – CoolSiC™ – CoolGaN™

CoolMOS™ 7 is the latest generation of high voltage superjunction MOSFETs from Infineon, setting new standards for energy efficiency, power density and ease-of-use. CoolMOS™ 7 boasts the best figures of merit in terms of conduction, switching and driving losses. CoolSiC™ and CoolGaN™ technologies look into the future enabling the design of systems of extreme efficiency and compactness that meet future needs for greener and better products.

7 good reasons to go cool and grow your business with Infineon high voltage conversion solutions!



## Product and technology leader

Put the MOSFET leader in your offering, partner up with the superjunction inventor with a solid 20 years track record and a robust roadmap



## System approach

Infineon's P2S – product-to-system – approach makes the design-in process easier and increases selling opportunities for our partners



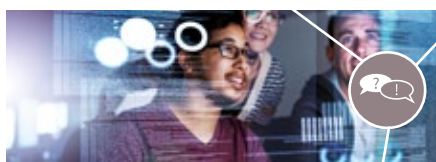
## Quality and cost leader

Infineon's acknowledged high quality reduces after sales efforts and increases customer satisfaction, at very competitive price levels



## Unrivalled supply chain

With the largest capacity in the power semiconductors industry, Infineon helps partners to secure revenue and to increase customer satisfaction



## Excellent support

Infineon's robust support structure helps customers to fasten time-to-market and simplify design-in efforts



## Sales enhancement

Availability of information, content and tools makes sales more effective and strong investment in marketing generates demand



## The most comprehensive portfolio

The high granularity of the high voltage MOSFET portfolio matches the requirements of an increasing number of applications, generating opportunities for more sales

## Application to product matrix

Application	CoolMOS™ 7									CoolSiC™	CoolGaN™	Driver ICs
	CFD7 – 600 V	C7 – 650 V	C7 – 600 V	G7 – 650 V	G7 – 600 V	P7 – 600 V	P7 – 700 V	P7 – 800 V	P7 – 950 V	CoolSiC™ diode G6	CoolGaN™ 600 V	EiceDRIVER™
<b>Low power applications</b>												
TV						✓	✓				✓	
Charger							✓	✓	✓		✓	
Adapter						✓	✓	✓	✓		✓	
Lighting						✓	✓	✓	✓		✓	
Audio						✓	✓	✓			✓	
Gaming						✓	✓					
PC power						✓						
Smart meter								✓	✓			
<b>Fast growing high power applications</b>												
EV charging	✓	✓		✓		✓						✓
LSEV	✓	✓		✓		✓				✓		✓
Industrial battery charging	✓					✓				✓	✓	✓
<b>High power applications</b>												
Server	✓	✓	✓	✓	✓	✓				✓	✓	✓
Telecom	✓	✓	✓	✓	✓	✓				✓	✓	✓
Industrial SMPS	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Solar		✓		✓		✓				✓	✓	

## Portfolio for low power applications (<150 W)

P7 – 600 V 0.18 – 0.6 Ω			P7 – 700 V 0.36 – 2.0 Ω		P7 – 800 V 0.28 – 4.5 Ω		P7 – 950 V 0.45 – 3.7 Ω		CoolGaN™ 0.19 – 0.34 Ω	
PFC	Flyback	LLC	PFC	Flyback	PFC	Flyback	PFC	Flyback	Flyback	

## Portfolio for high power applications (>150 W)

C7 – 600 V C7 – 650 V G7 – 600 V G7 – 650 V CFD7 – 600 V	C7 – 600 V G7 – 600 V CFD7 – 600 V	CFD7 – 600 V	P6 – 600 V P7 – 600 V	P7 – 600 V CFD7 – 600 V	CFD7 – 600 V	CoolSiC™ diode 600 V/650 V	CoolGaN™ 600 V
PFC	LLC	ZVS PS FB	PFC	LLC	ZVS PS	PFC	PFC
$R_{DS(on)}$ 17 – 190 mΩ							
<b>Gate driver ICs</b>							
2EDN 1EDN	2EDN 1EDN	2EDN 1EDN	2EDN 1EDN	2EDN 1EDN	2EDN 1EDN	2EDN 1EDN	CoolGaN™ drivers

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