

Product Change Notice

PCN Number: 13-0402-01 Issue Date: 4/17/2013

Exar Corporation

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PRODUCTS AFFECTED:	XRP7664IDTR-F	
CHANGE CATEGORY:		
Material	Process	☐ Package
□ Design	□ Datasheet	Packing/Shipping
Other (specify)		

DESCRIPTION OF CHANGE:

FROM:

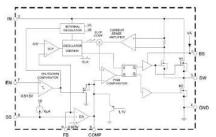
OPERATING RATINGS

Input Voltage V_{IN}...... 4.75V to 18V

ELECTRICAL SPECIFICATIONS

Parameter	Min.	Тур.	Max.	Units		Conditions
Quiescent Current		1.0	1.2	mA		V _{EN} =2V, V _{FB} =1V
Feedback Voltage V _m	0.900	0.925	0.950	V	•	
Feedback Overvoltage Threshold		1.1		٧		
High-Side switch On Resistance Rosonn (Note 2)		120		mΩ		I _{sw} =0.2A&0.7A
Low-Side switch On Resistance Roson (Note 2)		110		mΩ		I _{5W} =-0.2A&-0.7A
Oscillator Frequency Fosci	300	340	380	kHz		
EN Threshold V _{ENH}	1.5			V		
EN Threshold V _{EML}			0.5	V		
UVLO Threshold	3.65	4.00	4.45	V		V _{IN} Rising
UVLO Hysteresis		0.30		٧		
Soft-start Time (Note 1)		10		ms		C ₅₅ =0.1µF, I ₀₀₇ =500mA

BLOCK DIAGRAM



PIN DESCRIPTION

Name	Pin Number	Description
EN	7	Control input pin. Forcing this pin above 1.5V enables the IC. Forcing this pin below 0.5V shuts down the IC. When the IC is in shutdown mode all functions are disabled to decrease the supply current below 1µA.

TO:

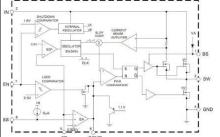
OPERATING RATINGS

Input Voltage V_{IN} 4.50V to 18V

ELECTRICAL SPECIFICATIONS

Parameter	Min.	Тур.	Max.	Units	Conditions
Shutdown Supply Current	9	0.1	10	μА	V _{EN} ≤0.75V
Quiescent Current		1.2	1.4	mA	V _{EN} =3V, V _{EE} =1V
Feedback Voltage V _{FB}	0.907	0.925	0.943	V	
High-Side switch On Resistance Rosonn (Note 2)		100		mΩ	I _{sw} =0.2A&0.7A
Low-Side switch On Resistance Rosont (Note 2)		100		mΩ	I _{sw} =-0.2A&-0.7A
Oscillator Frequency Fosci	280	340	400	kHz	\$
EN Enable Threshold	2.2	2,5	2.7	V	
EN Enable Threshold Voltage Hysteresis (Note 1)		210		m∀	
UVLO Threshold	3.65	4.00	4.25	V	V _{IN} Rising
UVLO Hysteresis		0.20		V	
Soft-start Time (Note 1)	\top	15		ms	Css=0.1µF

BLOCK DIAGRAM



PIN DESCRIPTION

Name	Pin Number	Description
EN	7	Control input pin. Forcing this pin above 2.7V enables the IC. Forcing this pin below 0.75V shuts down the IC. Pull up to VIN with 100kO resistor for automatic startup.

PROPRIETARY INFORMATION

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REASON FOR CHANGE:
Product Improvement and compatibility with industry equivalent devices.
FORM, FIT, FUNCTION CHANGE: YES NO
IMPACT OF CHANGE:
New Data Sheet attached.
TARGET IMPLEMENTATION DATE: 2-Apr-2013

Please contact customer support (customersupport@exar.com) for sample date availability or qualification data

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