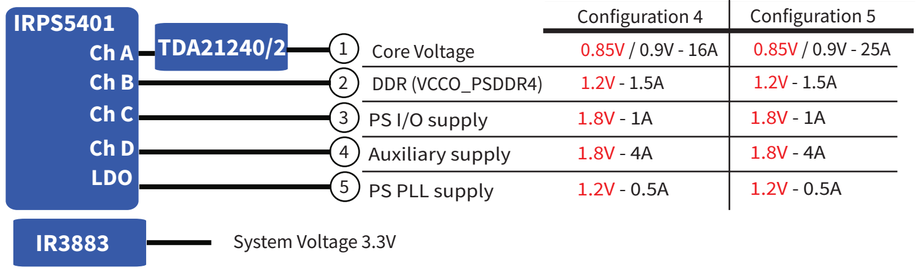
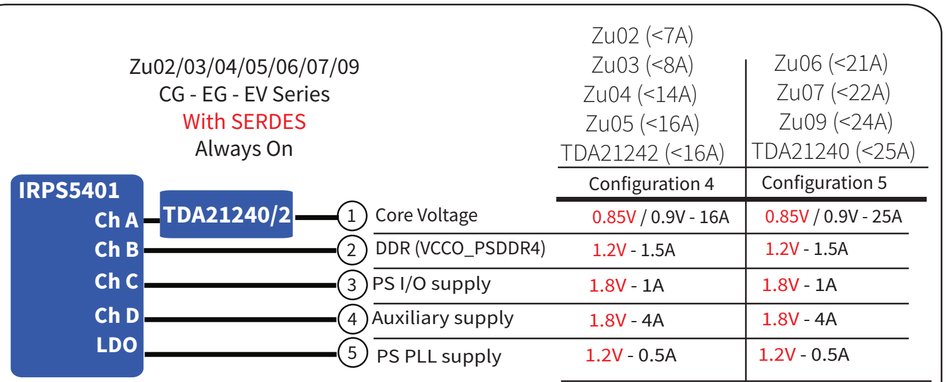
Zu02/03/04/05/06/07/09
CG - EG - EV Series
No SERDES
Always On



	Zu02 (<7A) Zu03 (<8A) Zu04 (<14A) Zu05 (<16A) TDA21242 (<16A)	Zu06 (<21A) Zu07 (<22A) Zu09 (<24A) TDA21240 (<25A)
	Configuration 4	Configuration 5
Core Voltage	0.85V / 0.9V - 16A	0.85V / 0.9V - 25A
DDR (VCCO_PSDDR4)	1.2V - 1.5A	1.2V - 1.5A
PS I/O supply	1.8V - 1A	1.8V - 1A
Auxiliary supply	1.8V - 4A	1.8V - 4A
PS PLL supply	1.2V - 0.5A	1.2V - 0.5A

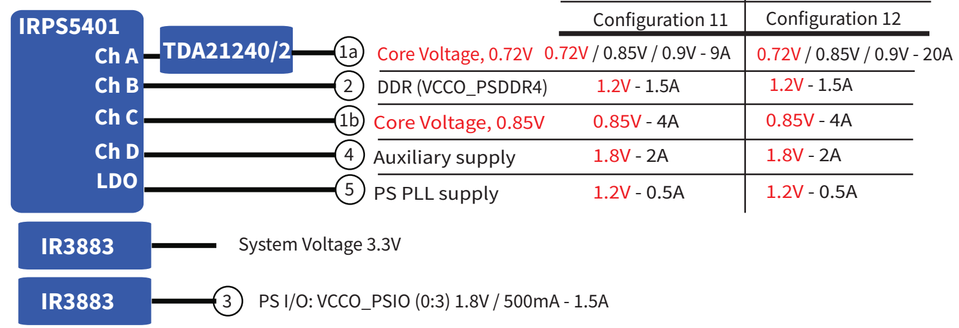
Zu02/03/04/05/06/07/09
CG - EG - EV Series
With SERDES
Always On



	Zu02 (<7A) Zu03 (<8A) Zu04 (<14A) Zu05 (<16A) TDA21242 (<16A)	Zu06 (<21A) Zu07 (<22A) Zu09 (<24A) TDA21240 (<25A)
	Configuration 4	Configuration 5
Core Voltage	0.85V / 0.9V - 16A	0.85V / 0.9V - 25A
DDR (VCCO_PSDDR4)	1.2V - 1.5A	1.2V - 1.5A
PS I/O supply	1.8V - 1A	1.8V - 1A
Auxiliary supply	1.8V - 4A	1.8V - 4A
PS PLL supply	1.2V - 0.5A	1.2V - 0.5A
	Configuration 6	Configuration 6
System Voltage 3.3V	3.3V - 1.5A	3.3V - 1.5A
SERDES 1.8V	1.8V - 1A	1.8V - 1A
SERDES 0.9V	0.9V - 2A	0.9V - 2A
SERDES 1.2V	1.2V - 2A	1.2V - 2A
SERDES 0.85V	0.85V - 0.5A	0.85V - 0.5A

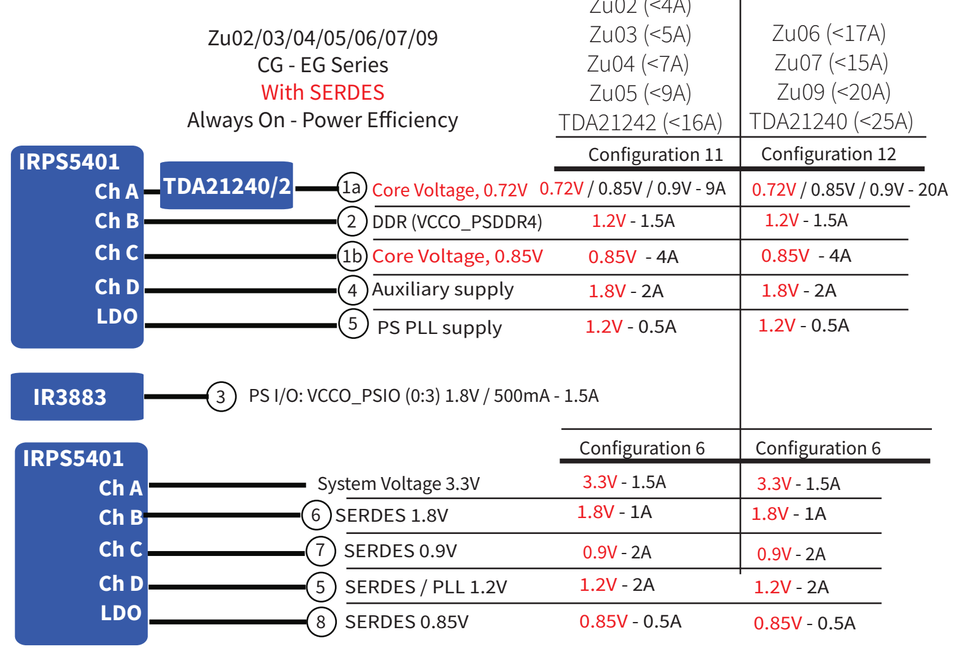
Note: For Zu02 and Zu03 Configuration 6 not needed for SERDES
SERDES option for Zu04 and above

Zu04/05/06/07/09
CG - EG Series
No SERDES
Always On - Power Efficiency



	Zu02 (<4A) Zu03 (<5A) Zu04 (<7A) Zu05 (<9A) TDA21242 (<16A)	Zu06 (<17A) Zu07 (<15A) Zu09 (<20A) TDA21240 (<25A)
	Configuration 11	Configuration 12
Core Voltage, 0.72V	0.72V / 0.85V / 0.9V - 9A	0.72V / 0.85V / 0.9V - 20A
DDR (VCCO_PSDDR4)	1.2V - 1.5A	1.2V - 1.5A
Core Voltage, 0.85V	0.85V - 4A	0.85V - 4A
Auxiliary supply	1.8V - 2A	1.8V - 2A
PS PLL supply	1.2V - 0.5A	1.2V - 0.5A

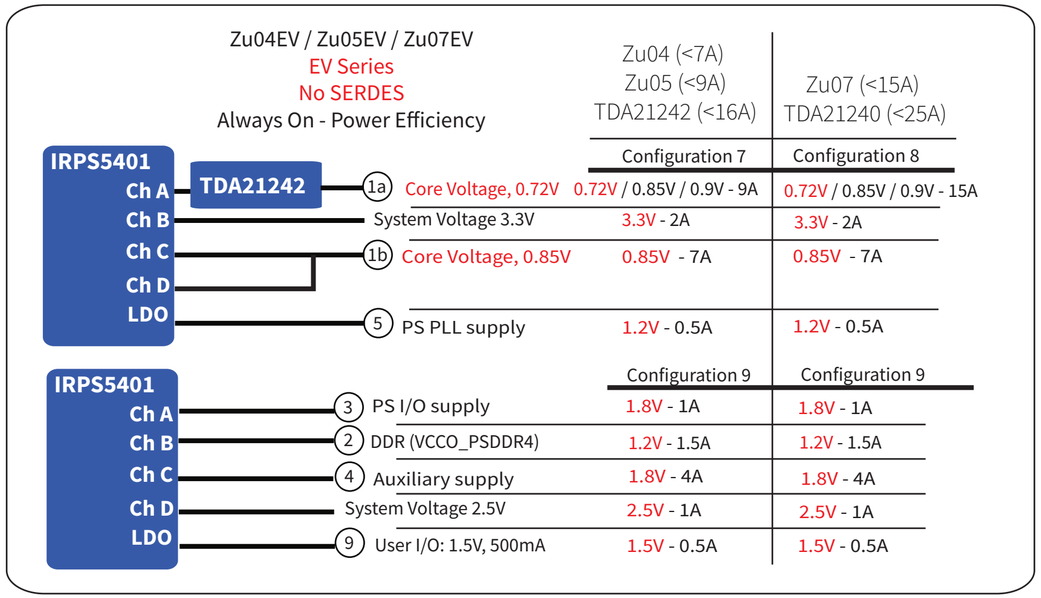
Zu02/03/04/05/06/07/09
CG - EG Series
With SERDES
Always On - Power Efficiency

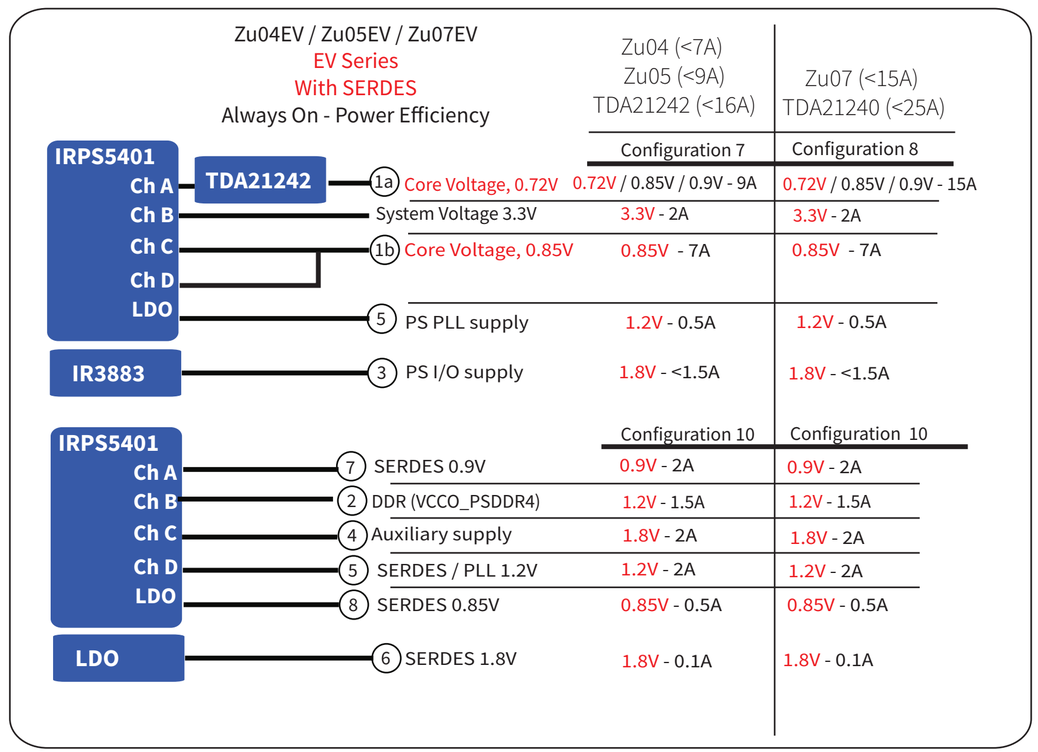


	Zu02 (<4A) Zu03 (<5A) Zu04 (<7A) Zu05 (<9A) TDA21242 (<16A)	Zu06 (<17A) Zu07 (<15A) Zu09 (<20A) TDA21240 (<25A)
	Configuration 11	Configuration 12
Core Voltage, 0.72V	0.72V / 0.85V / 0.9V - 9A	0.72V / 0.85V / 0.9V - 20A
DDR (VCCO_PSDDR4)	1.2V - 1.5A	1.2V - 1.5A
Core Voltage, 0.85V	0.85V - 4A	0.85V - 4A
Auxiliary supply	1.8V - 2A	1.8V - 2A
PS PLL supply	1.2V - 0.5A	1.2V - 0.5A
	Configuration 6	Configuration 6
System Voltage 3.3V	3.3V - 1.5A	3.3V - 1.5A
SERDES 1.8V	1.8V - 1A	1.8V - 1A
SERDES 0.9V	0.9V - 2A	0.9V - 2A
SERDES / PLL 1.2V	1.2V - 2A	1.2V - 2A
SERDES 0.85V	0.85V - 0.5A	0.85V - 0.5A

Xilinx
Zynq UltraScale+ MPSoC
Power Macros for
Zu02 to Zu09
CG / EG / EV SERIES

Part Number: 12 Configurations
IRPS5401MXI03TRP





Infineon DC/DC PMIC	MTP Resistor Address	Application – Voltage Outputs	PowerStage	EXT_A INDUCTOR	Zynq US+ config #
IRPS5401MXI03TRP	8870	1.8/1.8/.85/.85/1.2	N/A		1
	10000	1.2/.85/3.3/.85/1.8	N/A		2
	11000	1.8/5/3.3/.85/1.8	N/A		3
	2320	.85/1.2/1.8/1.8/1.2	TDA21242	VLB10050HT-R20M	4
	2870	.85/1.2/1.8/1.8/1.2	TDA21240	VLB10050HT-R12M	5
	3480	3.3/1.8/.9/1.2/.85	N/A		6
	4120	.72/3.3/.85/1.2	TDA21242	VLB10050HT-R30M	7
	4750	.72/3.3/.85/1.2	TDA21240	VLB10050HT-R20M	8
	5490	1.8/1.2/1.8/2.5/1.5	N/A		9
	6190	.9/1.2/1.8/1.2/.85	N/A		10
	6980	.72/1.2/.85/1.8/1.2	TDA21242	VLB10050HT-R30M	11
	7870	.72/1.2/.85/1.8/1.2	TDA21240	VLB10050HT-R20M	12

For Zu11 to Zu19:

For Zu15 use Zu09 Configuration 5 & 6

For Zu11 use Zu09 Configuration 5 & 6 (for SERDES <2A)
if SERDES < 6A, use IR38060 for MGTAVCC/VTT

For Zu17/Zu19 use Zu09 Configuration 5 & 6 (for SERDES <2A)
if SERDES < 6A, use IR38060 for MGTAVCC/VTT
if SERDES <10A, use IR38062 for MGTAVTT

Xilinx
Zynq UltraScale+ MPSoC
Power Macros for
Zu02 to Zu09
CG / EG / EV SERIES

Part Number: 12 Configurations
IRPS5401MXI03TRP