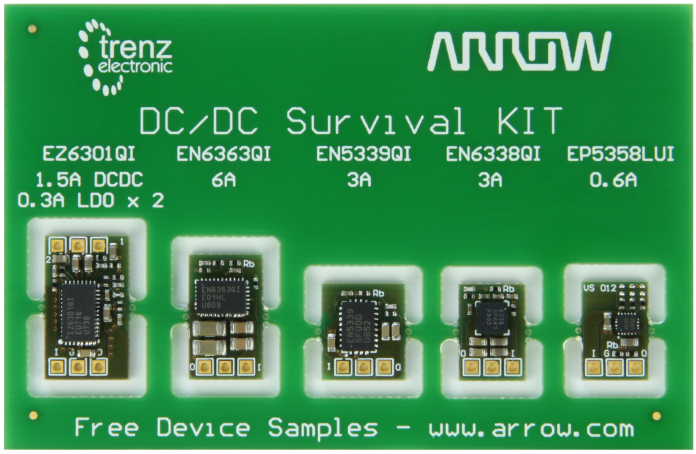
TEC0133 Power Card

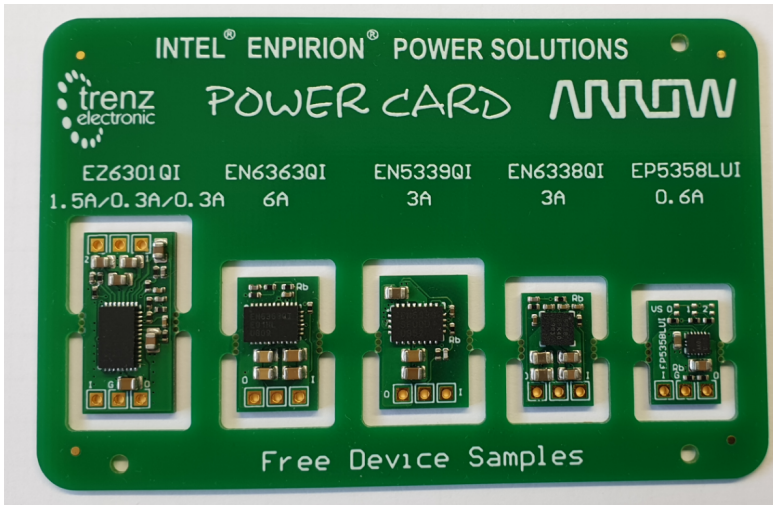
The Power Card delivers the possibility to change an input voltage from 5 V to lower voltages, according to the following table. The table shows the maximal output current and output voltages for the different revisions. Please consider the difference between the output voltages for the revisions.

	Iout Max	Vout REV 1	Vout REV 2
EZ6301QI DCDC	1.5	3.3V	3.3V
EZ6301QI LDO1	0.3	2.5V	2.5V
EZ6301QI LDO2	0.3	2.5V	1.8V
EN6363QI	6	1.0	1.2V
EN5339QI	3	1.5V	1.8V
EN6338QI	3	1.2V	3.3V
EP5358LUI	0.6	3.3V	3.3V

Power Card REV 1 PCBs:



REV2:


INTEL® ENPIRION® POWER SOLUTIONS
trenz electronic
POWER CARD
EZ6301QI
1.5A/0.3A/0.3A
EN6363QI
6A
EN5339QI
3A
EN6338QI
3A
EP5358LUI
0.6A
Free Device Samples


Trenz Electronic GmbH
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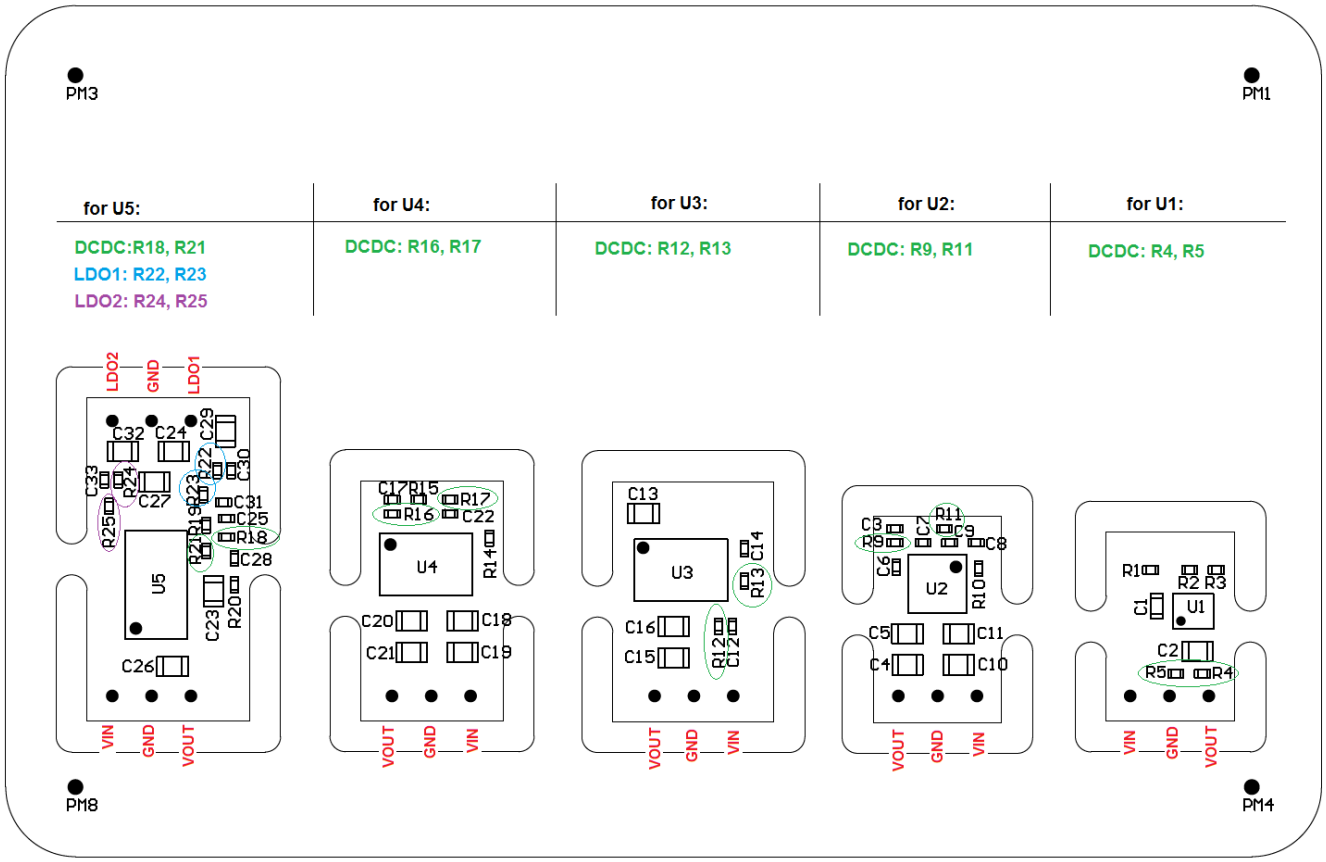
TEC0133-02
VIN 5V
VOUT 3.3V
VOUT 3.3V
VOUT 1.8V
VOUT 1.2V
VOUT 3.3V LDO1 2.5V LDO2 1.8V
EP5358LUI
EN6338QI
EN5339QI
EN6363QI
EZ6301QI
2019
Free Device Samples



Ux		Vin, V	Iout max, mA	Vout default, V	Vout, V	Rdo, mOhm	Resistor Divider
U1	EP5358LUI	2.4 .. 5.5	600	3.3	0.6 .. Vin-Vdo(*)	350 .. 500	R4, R5
U2	EN6338QI	2.7 .. 6.6	3000	3.3	0.75 .. Vin-Vdo(*)	50 .. 80	R9, R11
U3	EN5339QI	2.4 .. 5.5	3000	1.8	0.6 .. Vin-Vdo(*)	150 .. 300	R12, R13
U4	EN6363QI	2.7 .. 6.6	6000	1.2	0.75 .. Vin-Vdo(*)	50 .. 80	R16, R17
U5	EZ6301QI DCDC	2.7 .. 6.6	1500	3.3	0.6 .. 3.3	170 .. 255	R18, R21
U5	EZ6301QI LDO1	1.6 .. 5.5	300	2.5	0.9 .. 3.3	250	R22, R23
U5	EZ6301QILDO2	1.6 .. 5.5	300	1.8	0.9 .. 3.3	250	R24, R25

(*) Vdo->VDO (dropout voltage) is defined as (ILOAD x Rdo)