ToDo: - Make low-side and high-side pins 3.3V/5V choosable
- change direct DC out switch to a jumper for security

SEC

+DC-IN

SEL

LED2-WARN

MEASURE-AMPS

X1-1

X1-2

PWR

+5V-OUT

5VSEL

3k3 R2

POWERSUPPLY DC21MMX

+DC-IN
-AC-IN

IN

B1

C1
1000uF

C2
220nF

IN   OUT
GND

IC1
7805

R1
180

C3
100nF

LED1

LED-OFF

JP_SEL_HI

OUTA

VDC-OUT2
GND2

OUTB

VDC-OUT2
GND2

PWR

SEC1

U1

INPUT   GND   OUT

3V3SEL

JP_SEL_LOW

GND

B80C800

LD1117DT33CTR

VREG1

VIN VOUT
GND

GND

H1
MOUNT-PAD-ROUND2.8

H2
MOUNT-PAD-ROUND2.8

IN   OUT
GND

U$3
LM1086TO263

TITLE: PowerBridgeACv4

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Date: 10.10.2019 00:12

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* optional
use only one regulator

IC4
7805TV
+5V
VI   VO
GND
GND

VCC
JP_AMPS+

JP_SEC1

JP_DC_SW

GND +5V

GND
VCC
VSS
TP_HI2
JP_HI2

GND
VSS
VCC
TP_HI1
JP_HI1

JP_HI
VDC-OUT_HI2
VDC-OUT_HI1

X1-1
X1-2

S1

POWERSUPPLY DC21MX
+AC-IN
-AC-IN
X0

JP_AC_IN

B1
B80C800

DC-IN+

C1
1000uF

C2
220nF

IC1
IN   OUT
GND
LD 1117

+5V

C3
100nF

R1
180

JP_LED_ON

LED1

GND
VCC
VSS
TP_LO2
JP_LO2

GND
VSS
VCC
TP_LO1
JP_LO1

JP_LO
VDC-OUT_LO2
VDC-OUT_LO1

GND

C6
1000uF

C5
1000uF

C7
1000uF

C8
220nF

IC2
GND
IN   OUT
LM2990S-5.0
2*2

C4
100nF

B2
B80C800

R2
10

C9
100nF

DC-IN-

S1

-5V

JP_AMPS-

VSS

JP_GND

GND

IC3
GND
VI   VO
DC-IN-

-5V

* optional
use only one regulator

JP_SEC2

GND

H1
MOUNT-PAD-ROUND2.8

H2
MOUNT-PAD-ROUND2.8

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TITLE: PowerBridgeSymACv1

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REV:
1

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