LED12b

REF

GND

LED13b

REF

GND

LED14b

REF

GND

LED15b

REF

GND

LED16b

REF

GND

REF

LED28b

LED29b

LED30b

LED31b

LED32b

LED44b

LED45b

LED46b

LED47b

LED48b

LED49b

REF

REQUIRED

REQUIRED

LED61b

REF
TP
GND

LED62b

REF
TP
GND

LED63b

REF
TP
GND

LED64b

REF
TP
GND

LED65b

REF
TP
GND

LED66b

REF
TP
GND

REF

LED78b

REF
GND

REF

C_1C
A_1A
REQUIRED

C_1C
A_1A
REQUIRED

C_1C
A_1A
REQUIRED

C_1C
A_1A
REQUIRED

C_1C
A_1A
REQUIRED

C_1C
A_1A
REQUIRED

C_1C
GND

REF

C_1C
A_1A

C_1C
REQUIRED

LED1b
GND
REF
LED2b
GND
REF
LED3b
GND
REF
LED4b
GND
REF
LED5b
GND
REF
LED6b
GND
REF
LED7b
GND
REF
LED8b
GND
REF
LED9b
GND
REF
LED10b
GND
REF
LED11b
GND

led_circuit1_high

LED17b

led_circuit2_high

LED18b

LED19b

LED20b

LED21b

LED22b

LED23b

LED24b

LED25b

LED26b

LED27b

LED33b

led_circuit3_high

LED34b

LED35b

LED36b

LED37b

LED38b

LED39b

LED40b

LED41b

LED42b

LED43b

REQUIRED

LED50b
LED51b
LED52b
LED53b
LED54b
LED55b
LED56b
LED57b
LED58b
LED59b
LED60b

led_circuit4_high

LED67b
LED68b
LED69b
LED70b
LED71b
LED72b
LED73b
LED74b
LED75b
LED76b
LED77b
LED78b

blue_led_high

REF
GND

+24V
REF
+24V

D2
REQUIRED

L2
REQUIRED

U2
LT3518EUFPBF
REQUIRED

R7
REQUIRED
REQUIRED

C7
REQUIRED

C9
REQUIRED

R8
REQUIRED

C10
REQUIRED

R11
REQUIRED

R12
REQUIRED

C12
REQUIRED

C8
REQUIRED

R10
NOT PLACED

J2
HDR2PINSM
SM
REQUIRED

1	VIN	GND	16
2	*SHDN	SW	16
3	VREF	SW	15
4	RT	TG	14
SYNC_5	5	SYNC	ISP	13
6	SS	ISN	12
PWM_R_7	7	PWM	TGEN	11
CTRL_1_8	8	CTRL	FB	10
		VC	9

G 3 S

Q2
PMOS
SM
REQUIRED

led_circuit1_high

D

TP2
TESTPOINT KEYSTONE 5016
SM
OPTIONAL

REQUIRED
R9
REQUIRED

C11
REQUIRED

GND
REF

+24V
REF
+24V

D3
REQUIRED

L3
REQUIRED

U3
LT3518EUFPBF
REQUIRED

R13
REQUIRED
REQUIRED

C13
REQUIRED

C14
REQUIRED

R14
REQUIRED

C15
REQUIRED

R17
REQUIRED

R18
REQUIRED

C18
REQUIRED

C17
REQUIRED

R16
NOT PLACED

J3
HDR2PINSM
SM
REQUIRED

1	VIN	GND	16
2	*SHDN	SW	16
3	VREF	SW	15
4	RT	TG	14
SYNC_5	5	SYNC	ISP	13
6	SS	ISN	12
PWM_R_7	7	PWM	TGEN	11
CTRL_2_8	8	CTRL	FB	10
		VC	9

G 3 S

Q3
PMOS
SM
REQUIRED

led_circuit2_high

D

TP3
TESTPOINT KEYSTONE 5016
SM
OPTIONAL

REQUIRED
R15
REQUIRED

C16
REQUIRED

OPTIONAL
R32

TP8
TESTPOINT KEYSTONE 5016
SM
OPTIONAL

TP7
TESTPOINT KEYSTONE 5016
SM
OPTIONAL

+24V
REF
+24V

U6a
MC7805ACD2T
OPTIONAL

1 IN   OUT 3   +5V

L6
OPTIONAL

C32
OPTIONAL

C33
OPTIONAL

OPTIONAL OUTA
2 - INA
3 + INA
4 V+
5 + INB
6 - INB
7 OUTB

1 CTRL_R

3 3

2 2

J9
HDR10POSSM
SM
OPTIONAL

1 CTRL_1
2
3 CTRL_2
4
5 CTRL_3
6
7 CTRL_4
8
9
10

R34
OPTIONAL

R33
OPTIONAL

U8
MAX1720NAUB+T

1 VIN   GND
              VOUT

J8
HDR10POSSM
SM
OPTIONAL

1 GND
2 SYNC
3
4 PWM_R
5
6 PWM_B
7
8 CTRL_R
9
10 CTRL_B

R31
RO.C3AUESMTF 100K
NOT PLACED

J10
HDR8POSSM
UNSHR
NOT PLACED

1
CTRL_B 2
3
CTRL_R 4
5
CTRL_R 6
7
8

TP9
TESTPOINT KEYSTONE 5016
SM
OPTIONAL

+24V
REF
+24V

FS1
REQUIRED

J6
HDR10POSSM
SM
OPTIONAL

1
2
3
4
5
6
7
8
9
10

GND

REF

C31
OPTIONAL

TP1
TESTPOINT KEYSTONE 5016
SM
OPTIONAL

TP14
TESTPOINT KEYSTONE 5016
SM
OPTIONAL

TP10
TESTPOINT KEYSTONE 5016
OPTIONAL

TP12
TESTPOINT KEYSTONE 5016
OPTIONAL

CTRL_1

CTRL_3

R35
OPTIONAL

R37
OPTIONAL

OUTC   8
-INC   9
+INC   10
V-   11
+IND   12
-IND   13
OUTD   14

TP11
TESTPOINT KEYSTONE 5016
OPTIONAL

TP13
TESTPOINT KEYSTONE 5016
OPTIONAL

CTRL_4

CTRL_2

R36
OPTIONAL

R38
OPTIONAL

GND

U6b
MC7805ACD2T
OPTIONAL

GND

REF

3
2

J7
HDR10POSSM
SM
OPTIONAL

1 2 3 4 5 6 7 8

1   2
T1
OPTIONAL

1   2
T3
OPTIONAL

1   9   2
    10
T2
OPTIONAL

1   2
T4
OPTIONAL