J3
FW-04-05-G-D-470-160

TP35	VINP 1	2 VINP
TP34	VINP 3	4 VINP
TP37	5	6
TP36	7	8

GND ← 300 mill → GND

J7
TBP02P1-381-02BE

J2
TBP02R1-381-02BE

| 2 | VINP |
| 1 |

GND

Power_Supply_and_Digital_Interface

{DIGITAL_INTERFACE_INPUT} → {DIGITAL_INTERFACE_INPUT}   {DIGITAL_INTERFACE} → {DIGITAL_INTERFACE}

{POWER_BUS_INPUT} → {POWER_BUS_INPUT}   {POWER_BUS} → {POWER_BUS}

J5
FW-04-05-F-D-248-160

TP58	DO_VDD 7	8 DO_VDD
TP57	DO_VDD 5	6 DO_VDD
TP55	3	4
TP56	1	2

GNDA ← 300 mill → GNDA

J6
TBP02R1-381-02BE

| DO_VDD 1 |
| 2 |

GNDA

J10
TBP02P1-381-02BE

J4
CLP-117-02-G-D-BE

MVDD 1	2 MVDD
3	4
PWRGD 5	6 PWRGD
SDI_ISO 7	8 SDI_ISO
SCLK_ISO 9	10 SCLK_ISO
SDO_ISO 11	12 SDO_ISO
SYNC_ISO 13	14 SYNC_ISO
2B4_ISO 15	16 2B4_ISO
2B3_ISO 17	18 2B3_ISO
2B2_ISO 19	20 2B2_ISO
2B1_ISO 21	22 2B1_ISO
1B4_ISO 23	24 1B4_ISO
1B3_ISO 25	26 1B3_ISO
1B2_ISO 27	28 1B2_ISO
1B1_ISO 29	30 1B1_ISO
SDA_ISO 31	32 SDA_ISO
SCL_ISO 33	34 SCL_ISO

GNDD   GNDD

← 950 mill →

J1
CLP-135-02-G-D-BE

	1	2	
24V0	3	4	24V0
SYNC	7	8	SYNC
SDO	9	10	SDO
SDI	11	12	SDI
SCLK	13	14	SCLK
2B4	15	16	2B4
2B3	17	18	2B3
2B2	19	20	2B2
2B1	21	22	2B1
1B4	23	24	1B4
1B3	25	26	1B3
1B2	27	28	1B2
1B1	29	30	1B1
	31	32	
3V3	33	34	3V3
	35	36	
	37	38	
-15V0	39	40	-15V0
	41	42	TP59
	43	44	TP60
5V0	45	46	5V0
	47	48	
SCL	49	50	SCL
SDA	51	52	SDA
	53	54	
	55	56	
	57	58	
	59	60	
DO_VDD	61	62	DO_VDD
	63	64	
	65	66	
14V5	67	68	14V5
	69	70	

GNDA   GNDA

← 1850 mill →

{POWER_BUS_INPUT}
{DIGITAL_INTERFACE_INPUT}
{POWER_BUS}
{DIGITAL_INTERFACE}

U4 ADP1031ACPZ-3-R7

T1 ZA9644-AED

D3 200.0 V

VINP
C23 4.7 µF
D5 62.0 V
D4 100.0 V
JP3
SLEW
R2 120 kΩ
R6 3.48 MΩ
C3 10 µF
C11 10 µF
24V0

SWP / VINP / EN / SLEW / PGNDP / GNDP / EPGNDP
FB1 / VOUT1 / SYNC
VOUT2 / SW2
L2 100.0 µH
C6 4.7 µF
R7 100 kΩ
3V3

VOUT3
R4 121 kΩ
C2 10 µF
-15V0
FB3
R5 2.15 MΩ
L3 100.0 µH
SW3

MVDD / TP38
TP39
R21 100 kΩ
C22 100 nF
MVDD
SVDD2 / SVDD1
3V3
C9 100 nF
C10 100 nF

PWRGD / TP40
PWRGD / MGPI1 / MGPI2 / MGPO3 / MCK / MO / MI / MSS
SGPO1 / SGPO2 / SGPI3 / SCK / SI / SO / SSS
SCLK / SDI / SDO / SYNC
TP7 / TP6 / TP5 / TP4

SCLK_ISO / TP42
SDI_ISO / TP41
SDO_ISO / TP43
SYNC_ISO / TP44

MGND / MGND / EPGNDM
SGND / EPGND2

U7 ADUM1252AUA+
R23 1 kΩ / R22 1 kΩ / C18 100 nF / C19 1 nF
C21 1 nF / C20 100 nF / R25 1 kΩ / R24 1 kΩ
VDD1 / SDA1 / SCL1 / GND1 — VDD2 / SDA2 / SCL2 / GND2
SDA_ISO / SCL_ISO
SDA / SCL
TP53 / TP54
TP26 / TP25

U6 ADUM340E0BRQZ
C25 100 nF / C15 100 nF
VDD1 / GND1 / VIA / VIB / VIC / VID / NIC / GND1 — VDD2 / VOA / VOB / VOC / VOD / VE2
1B4_ISO / 1B3_ISO / 1B2_ISO / 1B1_ISO
1B4 / 1B3 / 1B2 / 1B1
TP49 / TP50 / TP51 / TP52
TP12 / TP13 / TP14 / TP15

U5 ADUM340E0BRQZ
C24 100 nF / C14 100 nF
VDD1 / GND1 / VIA / VIB / VIC / VID / NIC / GND1 — VDD2 / VOA / VOB / VOC / VOD / VE2
2B4_ISO / 2B3_ISO / 2B2_ISO / 2B1_ISO
2B4 / 2B3 / 2B2 / 2B1
TP45 / TP46 / TP47 / TP48
TP8 / TP9 / TP10 / TP11

U3 MAX17570FATA+
C16 1 µF / VCC / VCC
R11 1 kΩ
JP2 / 24V0 / MAX17570_VIN
C17 1 µF / C12 100 nF / C13 220 pF
R19 3.32 MΩ / R20 294 kΩ
VIN / VCC / RESET / EN/UVLO / LX / RT/SYNC / VOUT/FB / GND
L4 100.0 µH
R17 604 kΩ
C7 100 nF / C5 10 µF
R18 40.2 kΩ
R16 9.76 kΩ
14V5

U1 MAX17227JATA+
L1 2.2 µH
JP1 / 3V3 / MAX17227_VIN
C8 10 µF
IN / EN / LX / OUT / RSEL / GND / AGND
R10 10 kΩ
C4 10 µF
5V0

U2 MAX17614ATP+
24V0
R12 2.2 MΩ / R15 470 kΩ
R13 150 kΩ / R14 30 kΩ
IN / OUT / OVLO / UVLO / CLMODE / GND / SETI / TSTART / UVOV FLAG
DO_VDD
R3 3.3 kΩ / D2 1.8 V / R1 3.3 kΩ / D1 1.8 V
3V3
R8 150 kΩ / R9 15 kΩ / C1 220 nF
CLMODE / SETI / TSTART

Test points right side:
TP22 / TP21 / TP19 / TP18 / TP3 / TP1 / TP33 / TP31 / TP30 / TP28 / TP16 / TP27 / TP24
TP2 (24V0) / TP32 (14V5) / TP23 (5V0) / TP17 (3V3) / TP20 (-15V0) / TP29 (DO_VDD)