V50CN
V33CN
V50USB
V50ORG
V33A
V12D
V12
GND

V33A
[Power]
L8
RED
R1
102
GND
TPG1
GND

D1
ZLLS1000TA
V50ORG
V50CN
C1
476
D3
ZLLS1000TA
V50USB
JP2
JP-SMD-4
Factory setting
GND

U1
MPM3833
IN
NC
SW
PGND
AGND
OUT_S
EN
PG
FB
V33REG
C3
104
C2
476
EM1
CNH20 106
V33A
R2
1803/180K
R42
2002/20K
R43
2002/20K
R3
104
R41
104
V50ORG

U2
MPM3833
V33A
V12_ORG
C6
104
C5
476
EM2
CNH20 106
V12
R46
1803/180K
R49
1803/180K
R47
104
R48
104

FPGAA
XC6SL9_16
GND
VCCINT
VCCAUX
V12
V33A

Unmounted
D2
1SS349
V33JP2
JP4
JP-2
V33CN
V50CN
CNA
DIL 40
CNB
DIL 40
VIO(B) IN
JP1
JP-SMD-4
VIO(B)
V33A
D4
D5
MMBZ5235BLT1G
C24
C25
16V 226
R9
47R
R10
47R
R7
47R
R8
47R
EXCLK_A1
EXCLK_A2
EXCLK_BP1
EXCLK_BN1

V33A
C4
476
FC1
104
240ms TYP.
U5
MAX803REXR
RESET(OC)
R5
000
R11
222
FT_PROG

S_SELCTn
S_DATA_OUT
S_DATA_IN
S_CLOCK
U4
M25P16-VMN
FC6
104

V33A
RM5
8-102
RM4
4-472
FC7
104
FC8
104
U6
U7
SN74LVC2G17
X_TCK
X_TDI
X_TMS
X_TDO

JTAG
CN2
JTAG 7PIN
J_TCK_R6
J_TDO_R18
J_TMS_R14
J_TDI
R15
47R
000
->TCK
<-TDO
->TMS
->TDI

FT_OE
R4
472
R40
472
Q4
DTC143EE
FT_CLK
FT_DATAO
U3
SN74LVC2G126
S_CLOCK
X_MISO
FC43
104

V33A
L10
BLUE
[CONF_DONE]
R16
102
R17
331
R12
472
Q1
DTC143EE
S_CLOCK
Unmounted
R26
R36
R45
102
R44
Unmounted
VIO(B)

FPGAB
XC6SL9_16
FT_PROG
FT_DONE
X_INIT
X_MOSI
X_MISO
X_TCK
X_TDI
X_TMS
X_TDO
X_M1
S_SELCTn
X_HSWAPEN
PROGRAM_B_2
DONE_2
IO_L65P_INIT_B_2
IO_L1P_CCLK_2
IO_L3N_MOSI_CSI_B_MISO0_2
IO_L3P_D0_DIN_MISO_MISO1_2
IO_L12P_D1_MISO2_2
IO_L12N_D2_MISO3_2
TCK
TDI
TMS
TDO
IO_L1N_M0_CMPMISO_2
IO_L13P_M1_2
SUSPEND
IO_L74P_AWAKE_1
IO_L74N_DOUT_BUSY_1
IO_L65N_CSO_B_2
IO_L1P_HSWAPEN_0
IO_L2N_CMPMOSI_2
IO_L2P_CMPCLK_2
CMPCS_B_2

V33A
FC37
FC38
FC39
FC2
FC24
FC25
FC26
FC3
FC4
FC41
FC42
104
GND

FPGA
FPGA.sch
IOA[0..27]
IOB[0..27]
EXCLK_BP1
EXCLK_BN1
EXCLK_A1
EXCLK_A2
ASW2
PSW2
FT_CLK
FT_DATAO
FT_OE
FT_PROG
FT_DONE
X_M1

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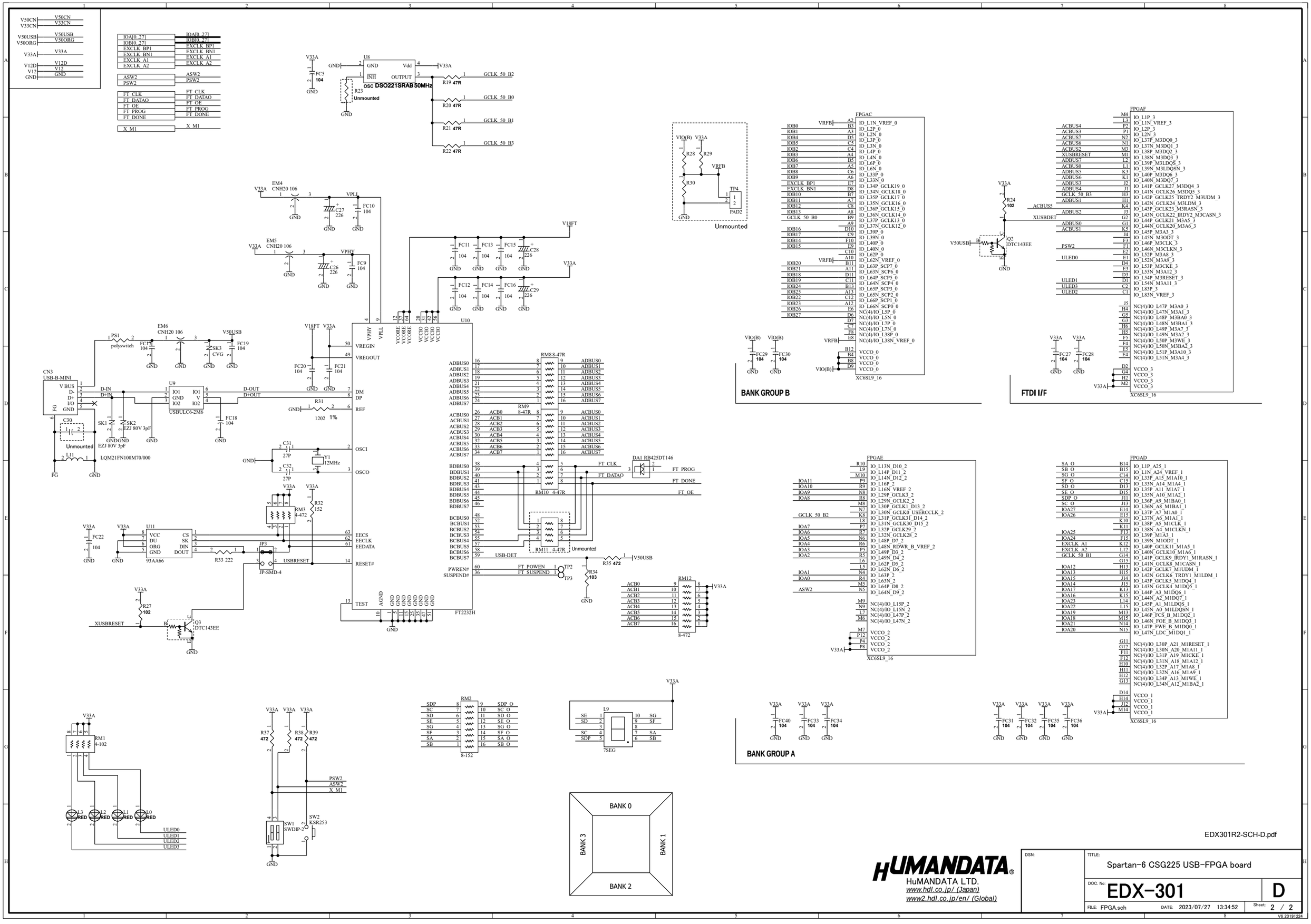
V50CN
V33CN
V50USB
V50ORG
V33A
V12D
V12
GND
IOA[0..27]
IOB[0..27]
EXCLK_BP1
EXCLK_BN1
EXCLK_A1
EXCLK_A2
ASW2
PSW2
FT_CLK
FT_DATAO
FT_OE
FT_PROG
FT_DONE
X_M1
U8
OSC DSO221SRAB 50MHz
Unmounted
R19 47R
R20 47R
R21 47R
R22 47R
GCLK_50_B2
GCLK_50_B0
GCLK_50_B1
GCLK_50_B3
EM4
EM5
EM6
VPLL
VPHY
C27 226
C26 226
FC10 104
FC9 104
V18FT
FC11 FC13 FC15 C28 226
FC12 FC14 FC16 C29 226
U10
VCORE
VCCIO
PS1 polyswitch
FC17 104
SK3 CVG
FC19 104
CN3
USB-B-MINI
V BUS
D-
D+
I/O
FG
D-IN
D+IN
D-OUT
D+OUT
U9
USBULC6-2M6
SK1
SK2 EZJ 80V 3pF
FC18 104
C30
L11
LQM21FN100M70/000
VREGIN
VREGOUT
FC20 104
FC21 104
DM
DP
R31 1202 1%
REF
C31 27P
C32 27P
Y1 12MHz
OSCI
OSCO
RM3 4-472
R32 152
U11
93AA66
FC22 104
JP3
JP-SMD-4
R33 222
EECS
EECLK
EEDATA
USBRESET
RESET#
R27 102
Q3 DTC143EE
XUSBRESET
TEST
AGND
FT2232H
USB-DET
PWREN#
SUSPEND#
FT_POWEN
FT_SUSPEND
TP2
TP3
R34 103
R35 472
V50USB
RM8 8-47R
RM9 8-47R
RM10 4-47R
RM11 4-47R
RM12 8-472
DA1 RB425DT146
ADBUS0
ADBUS1
ADBUS2
ADBUS3
ADBUS4
ADBUS5
ADBUS6
ADBUS7
ACBUS0
ACBUS1
ACBUS2
ACBUS3
ACBUS4
ACBUS5
ACBUS6
ACBUS7
BDBUS0
BDBUS1
BDBUS2
BDBUS3
BDBUS4
BDBUS5
BDBUS6
BDBUS7
BCBUS0
BCBUS1
BCBUS2
BCBUS3
BCBUS4
BCBUS5
BCBUS6
BCBUS7
BANK GROUP B
FPGAC
IO_L1N_VREF_0
IO_L2P_0
IO_L2N_0
IO_L3P_0
IO_L3N_0
IO_L4P_0
IO_L4N_0
IO_L6P_0
IO_L6N_0
IO_L33P_0
IO_L33N_0
IO_L34P_GCLK19_0
IO_L34N_GCLK18_0
IO_L35P_GCLK17_0
IO_L35N_GCLK16_0
IO_L36P_GCLK15_0
IO_L36N_GCLK14_0
IO_L37P_GCLK13_0
IO_L37N_GCLK12_0
IO_L39P_0
IO_L39N_0
IO_L40P_0
IO_L40N_0
IO_L62P_0
IO_L62N_VREF_0
IO_L63P_SCP7_0
IO_L63N_SCP6_0
IO_L64P_SCP5_0
IO_L64N_SCP4_0
IO_L65P_SCP3_0
IO_L65N_SCP2_0
IO_L66P_SCP1_0
IO_L66N_SCP0_0
NC(4)/IO_L7P_0
NC(4)/IO_L7N_0
NC(4)/IO_L38P_0
NC(4)/IO_L38N_VREF_0
VCCO_0
XC6SL9_16
FPGAF
IO_L1P_3
IO_L1N_VREF_3
IO_L2P_3
IO_L2N_3
IO_L37P_M3DQ0_3
IO_L37N_M3DQ1_3
IO_L38P_M3DQ2_3
IO_L38N_M3DQ3_3
IO_L39P_M3LDQS_3
IO_L39N_M3LDQSN_3
IO_L40P_M3DQ6_3
IO_L40N_M3DQ7_3
IO_L41P_GCLK27_M3DQ4_3
IO_L41N_GCLK26_M3DQS_3
IO_L42P_GCLK25_TRDY2_M3UDM_3
IO_L42N_GCLK24_M3LDM_3
IO_L43P_GCLK23_M3RASN_3
IO_L43N_GCLK22_IRDY2_M3CASN_3
IO_L44P_GCLK21_M3A5_3
IO_L44N_GCLK20_M3A6_3
IO_L45P_M3A3_3
IO_L45N_M3ODT_3
IO_L46P_M3CLK_3
IO_L46N_M3CLKN_3
IO_L52P_M3A8_3
IO_L52N_M3A9_3
IO_L53P_M3CKE_3
IO_L53N_M3A12_3
IO_L54P_M3RESET_3
IO_L54N_M3A11_3
IO_L83P_3
IO_L83N_VREF_3
NC(4)/IO_L47P_M3A0_3
NC(4)/IO_L47N_M3A1_3
NC(4)/IO_L48P_M3BA0_3
NC(4)/IO_L48N_M3BA1_3
NC(4)/IO_L49P_M3A7_3
NC(4)/IO_L49N_M3A2_3
NC(4)/IO_L50P_M3WE_3
NC(4)/IO_L50N_M3BA2_3
NC(4)/IO_L51P_M3A10_3
NC(4)/IO_L51N_M3A4_3
VCCO_3
FTDI I/F
R24 102
Q2 DTC143EE
FC27 104
FC28 104
FPGAE
IO_L13N_D10_2
IO_L14P_D11_2
IO_L14N_D12_2
IO_L16P_2
IO_L16N_VREF_2
IO_L29P_GCLK3_2
IO_L29N_GCLK2_2
IO_L30P_GCLK1_D13_2
IO_L30N_GCLK0_USERCCLK_2
IO_L31P_GCLK31_D14_2
IO_L31N_GCLK30_D15_2
IO_L32P_GCLK29_2
IO_L32N_GCLK28_2
IO_L48P_D7_2
IO_L48N_RDWR_B_VREF_2
IO_L49P_D3_2
IO_L49N_D4_2
IO_L62P_D5_2
IO_L62N_D6_2
IO_L63P_2
IO_L63N_2
IO_L64P_D8_2
IO_L64N_D9_2
NC(4)/IO_L15P_2
NC(4)/IO_L15N_2
NC(4)/IO_L47P_2
NC(4)/IO_L47N_2
VCCO_2
XC6SL9_16
FPGAD
IO_L1P_A25_1
IO_L1N_A24_VREF_1
IO_L33P_A15_M1A10_1
IO_L33N_A14_M1A4_1
IO_L35P_A11_M1A7_1
IO_L35N_A10_M1A2_1
IO_L36P_A9_M1BA0_1
IO_L36N_A8_M1BA1_1
IO_L37P_A7_M1A0_1
IO_L37N_A6_M1A1_1
IO_L38P_A5_M1CLK_1
IO_L38N_A4_M1CLKN_1
IO_L39P_M1A3_1
IO_L39N_M1ODT_1
IO_L40P_GCLK11_M1A5_1
IO_L40N_GCLK10_M1A6_1
IO_L41P_GCLK9_IRDY1_M1RASN_1
IO_L41N_GCLK8_M1CASN_1
IO_L42P_GCLK7_M1UDM_1
IO_L42N_GCLK6_TRDY1_M1LDM_1
IO_L43P_GCLK5_M1DQ4_1
IO_L43N_GCLK4_M1DQ5_1
IO_L44P_A3_M1DQ6_1
IO_L44N_A2_M1DQ7_1
IO_L45P_A1_M1LDQS_1
IO_L45N_A0_M1LDQSN_1
IO_L46P_FCS_B_M1DQ2_1
IO_L46N_FOE_B_M1DQ3_1
IO_L47P_FWE_B_M1DQ0_1
IO_L47N_LDC_M1DQ1_1
NC(4)/IO_L30P_A21_M1RESET_1
NC(4)/IO_L30N_A20_M1A11_1
NC(4)/IO_L31P_A19_M1CKE_1
NC(4)/IO_L31N_A18_M1A12_1
NC(4)/IO_L32P_A17_M1A8_1
NC(4)/IO_L32N_A16_M1A9_1
NC(4)/IO_L34P_A13_M1WE_1
NC(4)/IO_L34N_A12_M1BA2_1
VCCO_1
BANK GROUP A
RM1 4-102
L3 RED
L2 RED
L1 RED
L0 RED
ULED0
ULED1
ULED2
ULED3
SW1 SWDIP-2
SW2 KSR253
R37 472
R38 472
R39 472
PSW2
ASW2
X_M1
RM2 8-152
SDP
SC
SD
SE
SG
SF
SA
SB
SDP_O
SC_O
SD_O
SE_O
SG_O
SF_O
SA_O
SB_O
L9
7SEG
FC40 104
FC33 104
FC34 104
FC31 104
FC32 104
FC35 104
FC36 104
BANK 0
BANK 1
BANK 2
BANK 3
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