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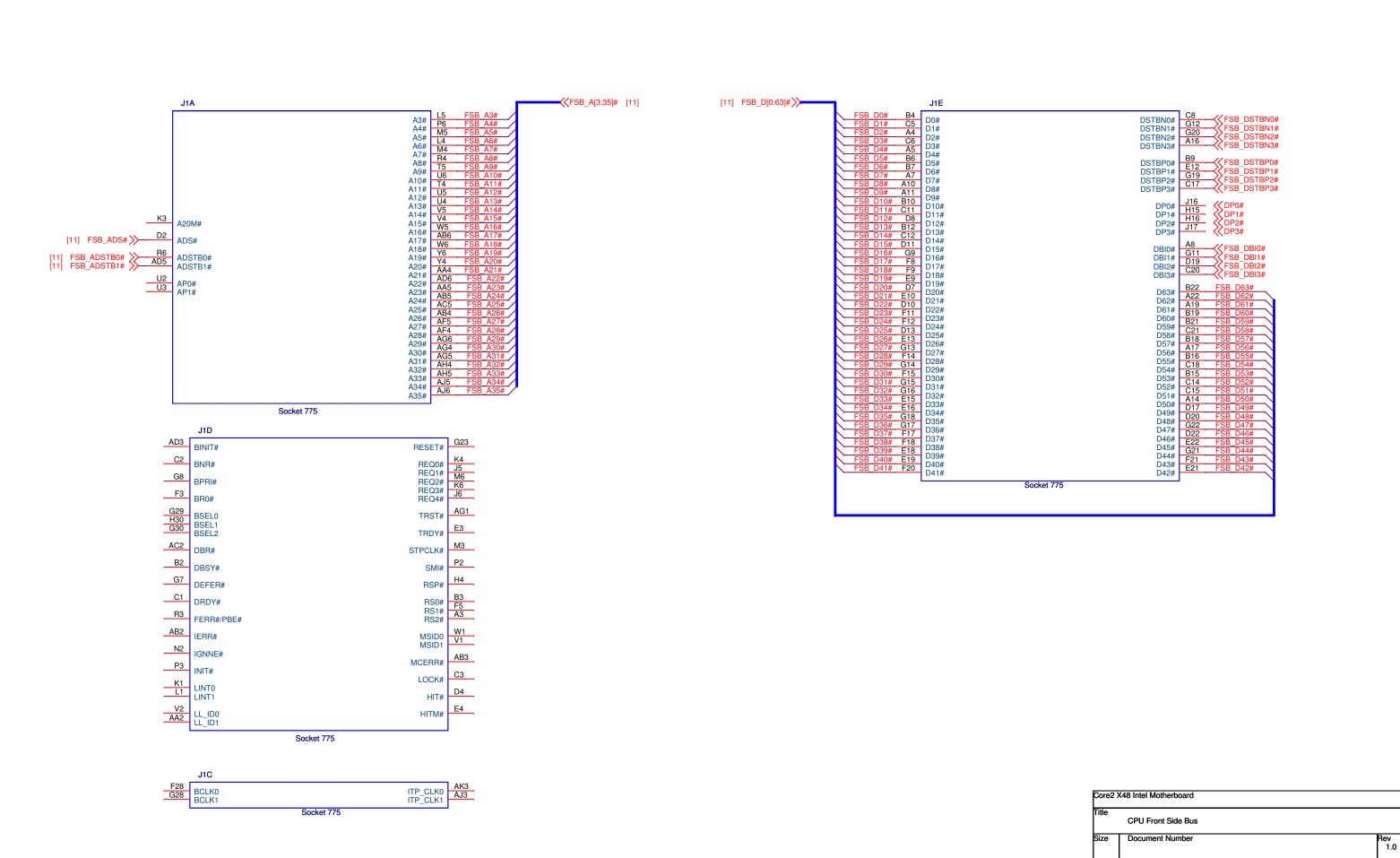
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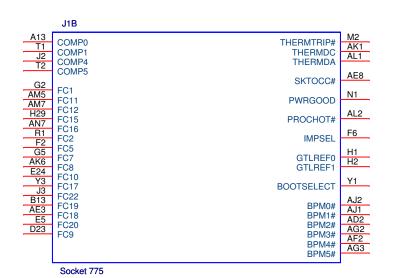
X48 Express Northbridge Info

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1.0

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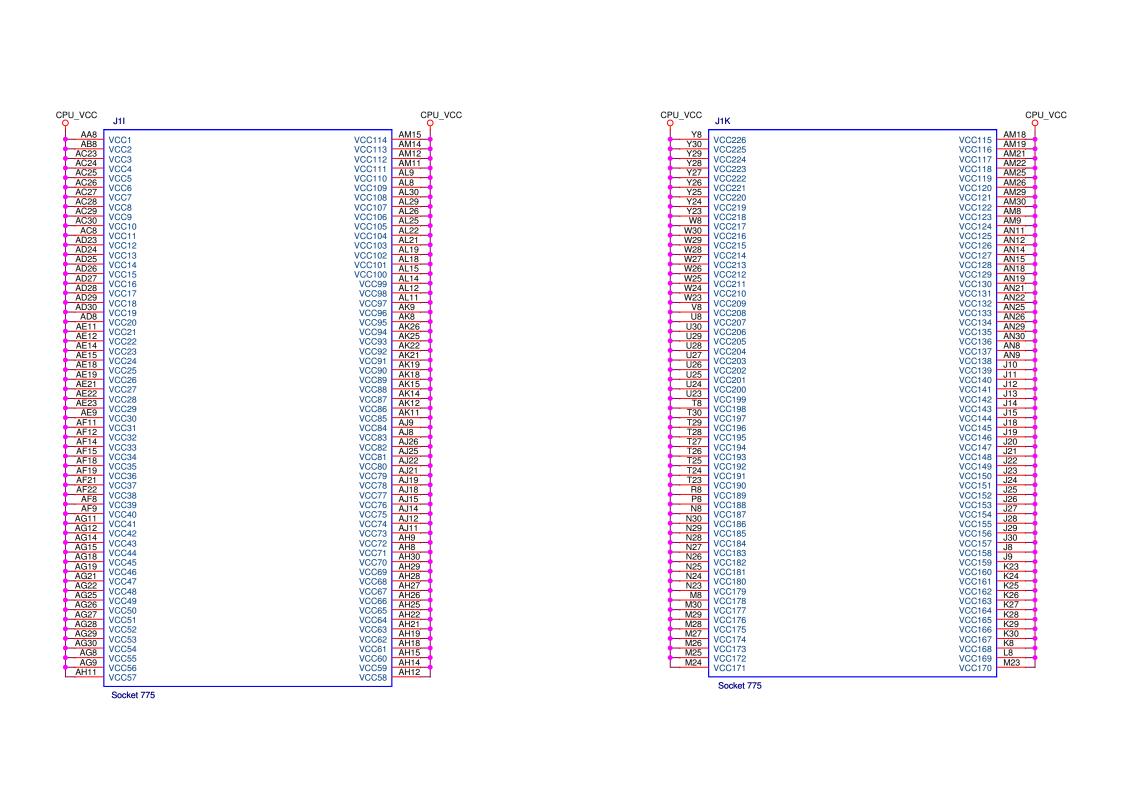




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J1G

Socket 775



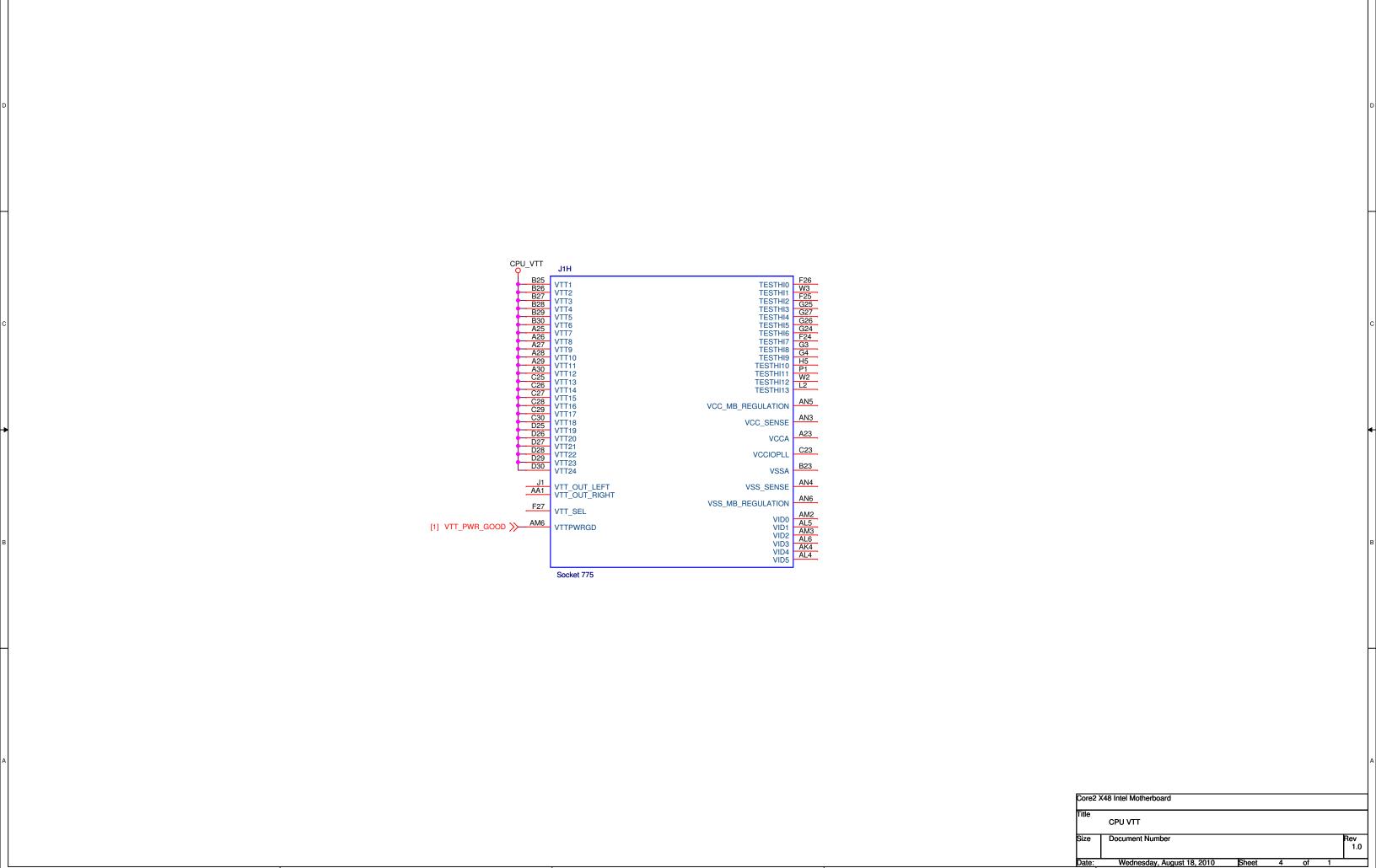
Core2 X48 Intel Motherboard

Title

CPU VCC

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J1J J1L VSS1 VSS138 AM24 VSS139 AM27 VSS140 AM28
 VSS137
 AM23

 VSS136
 AM17

 VSS135
 AM16

 VSS133
 AM10

 VSS133
 AM10

 VSS132
 AM1

 VSS129
 AL28

 VSS126
 AL27

 VSS127
 AL28

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 AL27

 VSS129
 AL28

 VSS1210
 AL13

 VSS121
 AL16

 VSS119
 AK5

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 AK29

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 AK21

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 VSS100
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 VSS101
 AK16

 VSS103
 AV30

 VSS104
 AJ30

 VSS105
 AJ4

 VSS101
 AJ29

 VSS102
 AJ28

 VSS103
 AJ29

 VSS90
 Y7
 VSS273

 Y5
 VSS272

 Y2
 VSS272

 W7
 VSS271

 W7
 VSS271

 V7
 VSS270

 V6
 VSS268

 V30
 VSS266

 V29
 VSS265

 V29
 VSS266

 V25
 VSS261

 V26
 VSS261

 V27
 VSS262

 V28
 VSS261

 V21
 VSS262

 V22
 VSS262

 V23
 VSS256

 V24
 VSS259

 V30
 VSS259

 V31
 VSS258

 V17
 VSS257

 VSS257
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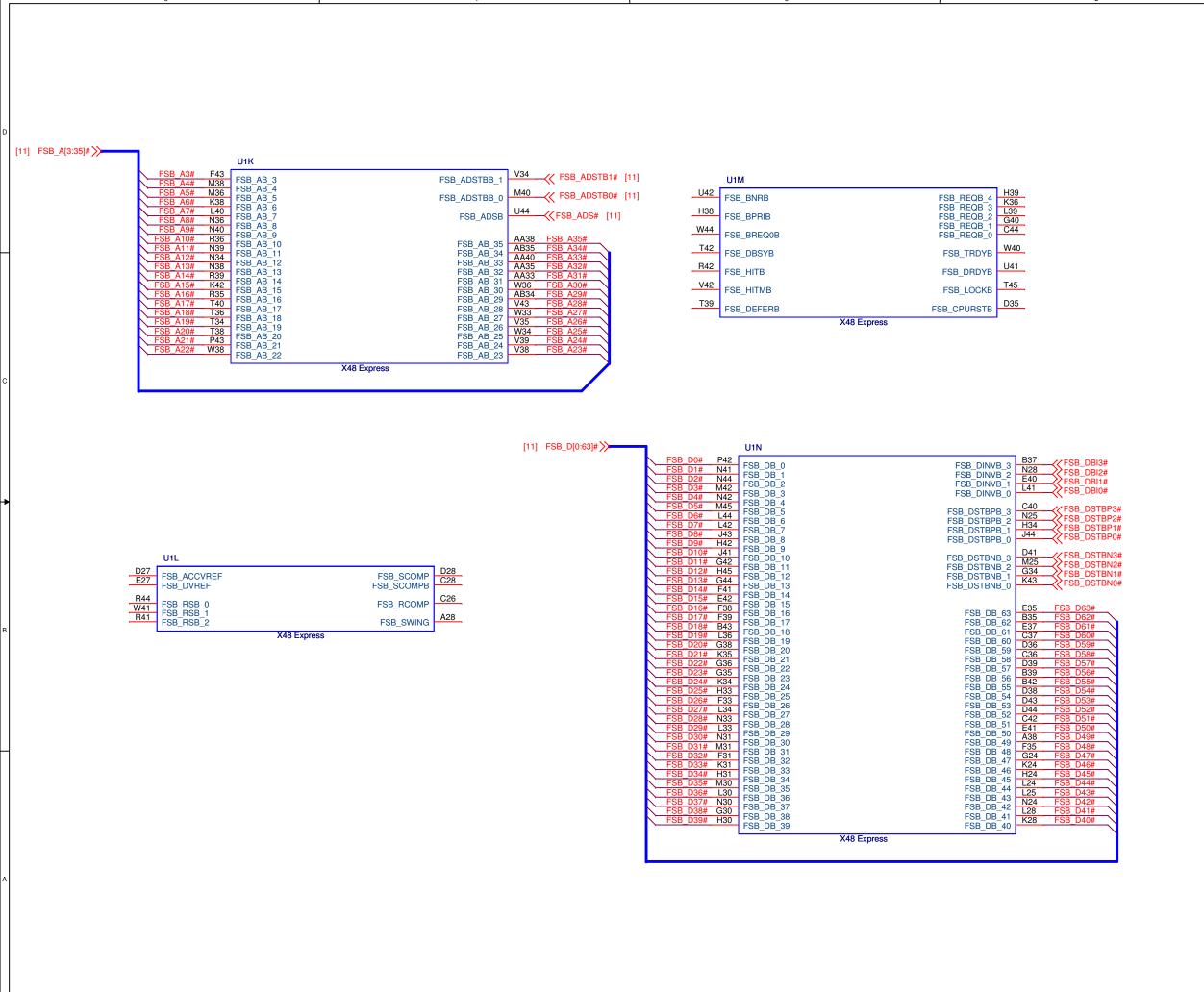
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 VSS248

 R27
 VSS244

 VSS244
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M// VSS227
L6
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L29 VSS223
L28 VSS221
L26 VSS220
L25 VSS218
L24 VSS218
L23 VSS217
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H9 VSS211
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H8 VSS207
VSS206 AE20 AE24 AE25 AE26 AE27 AE28 AE29 AE30 VSS184 VSS185 VSS186 VSS48 F22 VSS49 F4 F7 VSS50 VSS51 VSS187 G1 H10 H11 H12 VSS52 VSS53 VSS188 VSS189 VSS54 VSS190 VSS55 VSS191 AE5 AE7 AF10 H13 H14 H17 VSS56 VSS192 VSS193 VSS57 VSS194 VSS194 H18 VSS195 H19 VSS58 AF10 AF13 AF16 AF17 AF20 AF23 VSS59 VSS60 VSS195 VSS196 H20 H21 H22 VSS61 VSS197 VSS62 VSS198 VSS63 VSS64 AF24 AF25 VSS199 H23 H24 H25 H26 H27 VSS200 VSS65 VSS201 AF26 VSS66 VSS67 VSS202 AF27 AF28 VSS203 VSS204 VSS68 AF29 H28 VSS69 VSS70 VSS206 VSS205 Socket 775 Socket 775

> Core2 X48 Intel Motherboard **CPU VSS** Rev 1.0 Document Number Wednesday, August 18, 2010



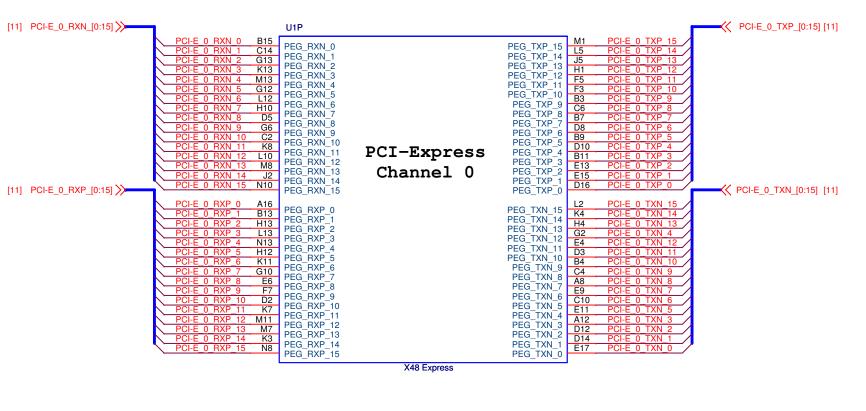
Core2 X48 Intel Motherboard

Title

X48 Express Northbridge Front Side Bus

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PCI-Express

Channel 1

X48 Express

U1Q

PEG2_RXN_0

PEG2_RXN_15

PCI-E 1 RXN 0 AA13
PCI-E 1 RXN 1 AA11
PCI-E 1 RXN 2 AA7
PCI-E 1 RXN 3 AB12
PCI-E 1 RXN 3 AB12
PCI-E 1 RXN 4 AC10
PCI-E 1 RXN 5 AC7
PCI-E 1 RXN 6 AD12
PCI-E 1 RXN 7 AE11
PCI-E 1 RXN 8 AE6
PCI-E 1 RXN 8 AE6
PCI-E 1 RXN 10 AH10
PCI-E 1 RXN 10 AH10
PCI-E 1 RXN 11 AH6
PCI-E 1 RXN 12 AK13
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PCI-E 1 RXN 13 AL10
PCI-E 1 RXN 14 AL7
PCI-E 1 RXN 15 AP11
PCI-E 1 RXN 15 AP11

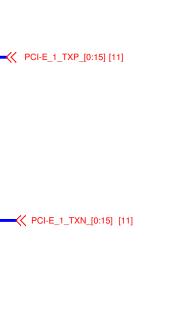
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PCI-E 1 RXP 1 AA10
PCI-E 1 RXP 2 AA6
PCI-E 1 RXP 3 AC13
PCG2 RXP 3

PCI-E 1 RXP 3 AC13
PCI-E 1 RXP 4 AC11
PCI-E 1 RXP 5 AC6
PCI-E 1 RXP 5 AC6
PCI-E 1 RXP 7 AE10
PCI-E 1 RXP 8 AE7
PCI-E 1 RXP 9 AG12
PCI-E 1 RXP 9 AG12
PCI-E 1 RXP 11 AH7
PCI-E 1 RXP 11 AH7
PCI-E 1 RXP 12 AK12
PCI-E 1 RXP 13 AL11
PCI-E 1 RXP 13 AL11
PCI-E 1 RXP 14 AL6
PCI-E 1 RXP 15 AP10
PCI-E 1 RXP 15 AP10
PCI-E 1 RXP 15 AP10

PCI-E 1 RXN 0 AA13

[11] PCI-E_1_RXN_[0:15] >>

[11] PCI-E_1_RXP_[0:15] >>



U1R

D18 EXP_CLKINN

AE14

EXP_CLKINP

EXP2_CLKINN

EXP2_CLKINP

EXP SLR

PCI-Express

Clocking

X48 Express

Core2 X48 Intel Motherboard X48 Express Northbridge PCI-Express Document Number Rev 1.0 Friday, August 20, 2010

EXP_COMPI T10 EXP_COMPO

EXP2_COMPI AN8

EXP2_COMPO

PEG2_TXP_15 AU2 PEG2_TXP_14 AU2 AT4

AR2

AK4

AG2

AN5 AM3

PEG2_TXP_13 PEG2_TXP_12

PEG2_TXP_11 PEG2_TXP_10 AM4 AL2 PEG2_TXP_8 PEG2_TXP_8

PEG2_TXP_ PEG2_TXP_6 PEG2 TXP 5

PEG2 TXP 4 PEG2_TXP_3

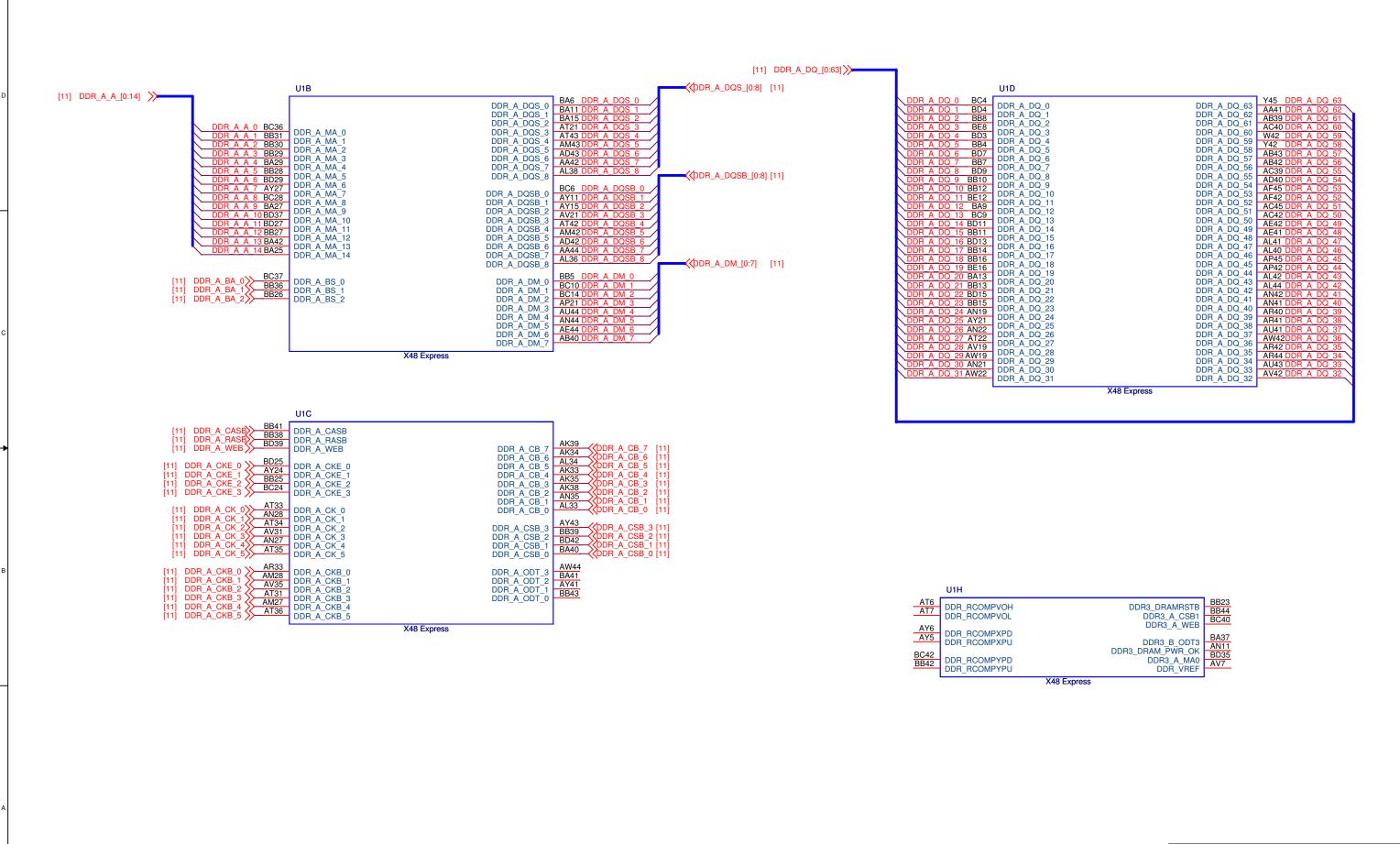
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PEG2_TXP_0

PEG2_TXN_15 PEG2_TXN_14 PEG2_TXN_13

PEG2_TXN_12

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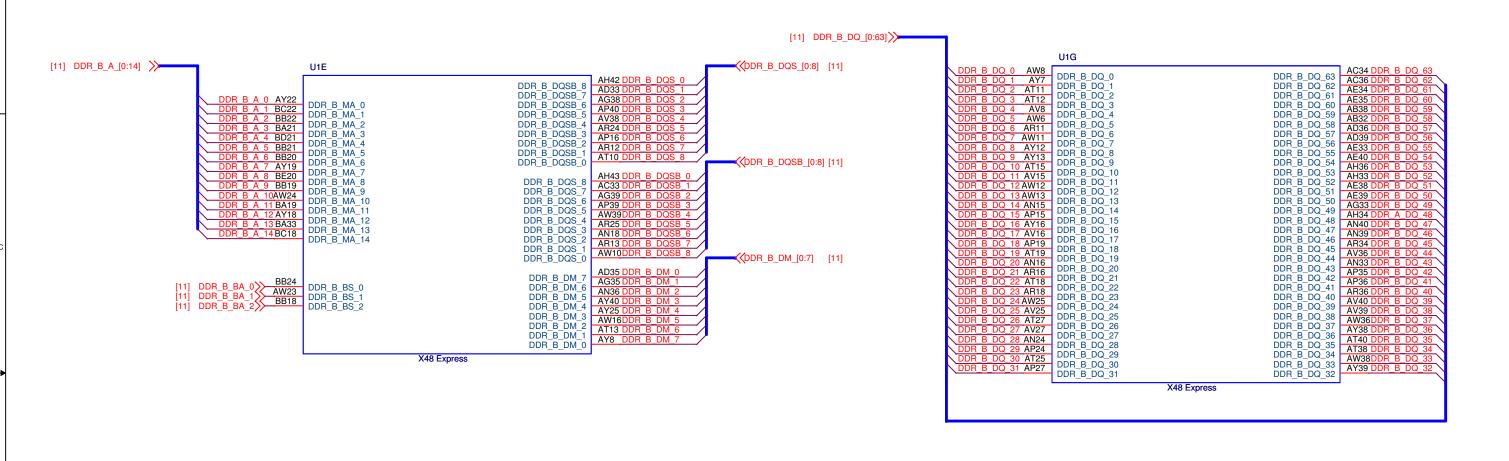
Core2 X48 Intel Motherboard

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X48 Express Northbridge DDR3 Channel 0

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DDR B CB 7
DDR B CB 6
AG44
DDR B CB 6
AG42
DDR B CB 5
DDR B CB 4
DDR B CB 2
DDR B CB 1
DDR B CB 0 **⟨**DDR_B_CB_7 [11] DDR_B_WEB [11] DDR B CKE 0 BD17
[11] DDR B CKE 1 BB17
[11] DDR B CKE 2 BA17
[11] DDR B CKE 3 DDR B CKE 2 DDR_B_CKE_3 AW30 DDR_B_CK_0 DDR_B_CK_1 DDR_B_CK_2 DDR_B_CK_0 DDR_B_CK_1 DDR_B_CK_2 AR28 AV33 DDR B CSB 3 BA35 DDR B CSB 2 DDR B CSB 2 DDR B CSB 1 DDR B CSB 1 DDR B CSB 1 DDR B CSB 0 [11] AR31 AY30 AW34 DDR_B_CK_ DDR_B_CK DDR_B_CK_3 DDR_B_CK_4 DDR_B_CK_5 DDR_B_CSB_C DDR_B_ODT_3
DDR_B_ODT_2
DDR_B_ODT_1
DDR_B_ODT_1
DDR_B_ODT_1 DDR_B_CKB_0 DDR_B_CKB_1 DDR_B_CKB_2 DDR_B_CKB_3 DDR_B_ODT_0 DDR_B_CKB_4 DDR_B_CKB_5 X48 Express

| Core2 | X48 Intel Motherboard | | | | | |
|-------|--------------------------------|-----------|---|----|---|-----------|
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| Size | Document Number | | | | | Rev 1. |
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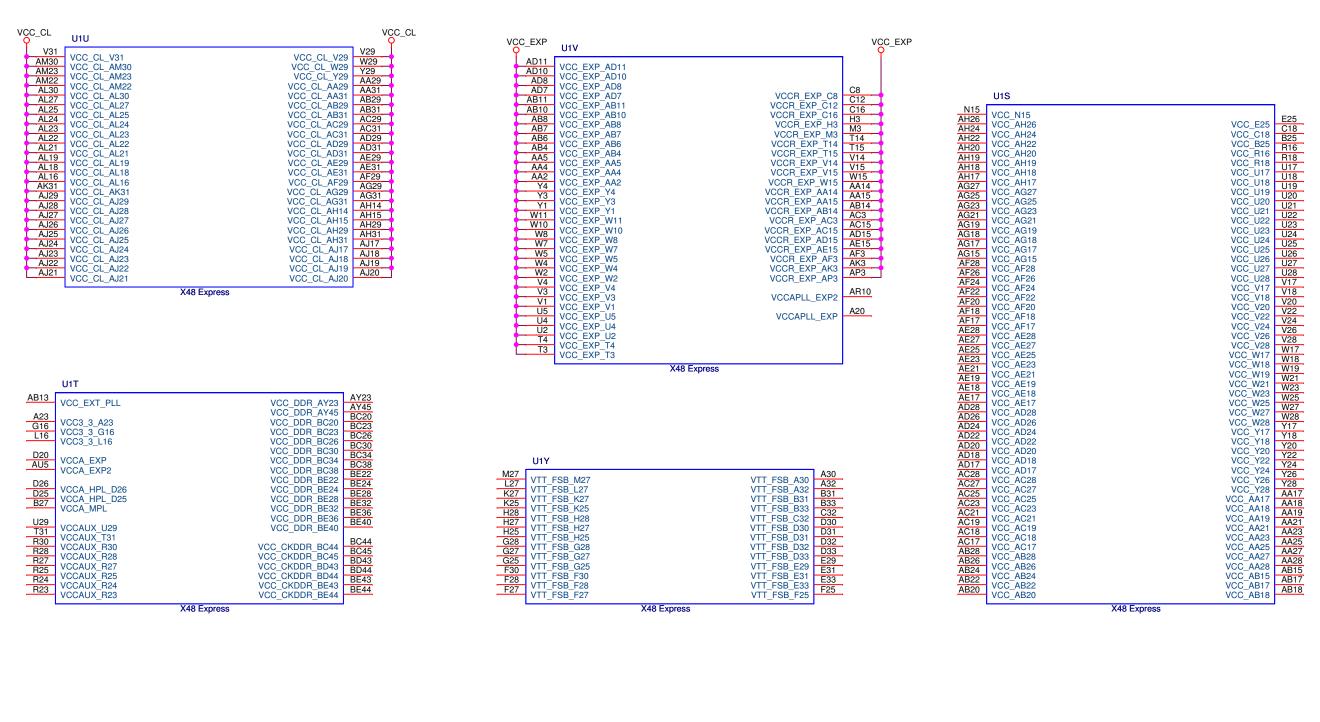
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AG14
CL_CLK
CL_VREF
CL_RSTB
CL_PWROK
CL_DATA **PWROK** TEST3 TEST2 TEST1 TEST1 TEST0 TCEN G21 AM18 RSTINB

U1J L18
RSVD_L18
RSVD_BC2
AP34
RSVD_BC2
AP12
RSVD_AP34
AN31
RSVD_AN31
AN32
RSVD_AN31
AN32
AN13
RSVD_AN25
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RSVD_AN25
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RSVD_M17
RSVD_M18
RSVD_M18
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RSVD_M18
RSVD_M19
RSVD_P21
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RSVD_R19
RSV X48 Express

> U10 BE2 BD45 BD1 NC_BD45 NC_BD1 NC_A44 NC_B1 NC_B45 X48 Express

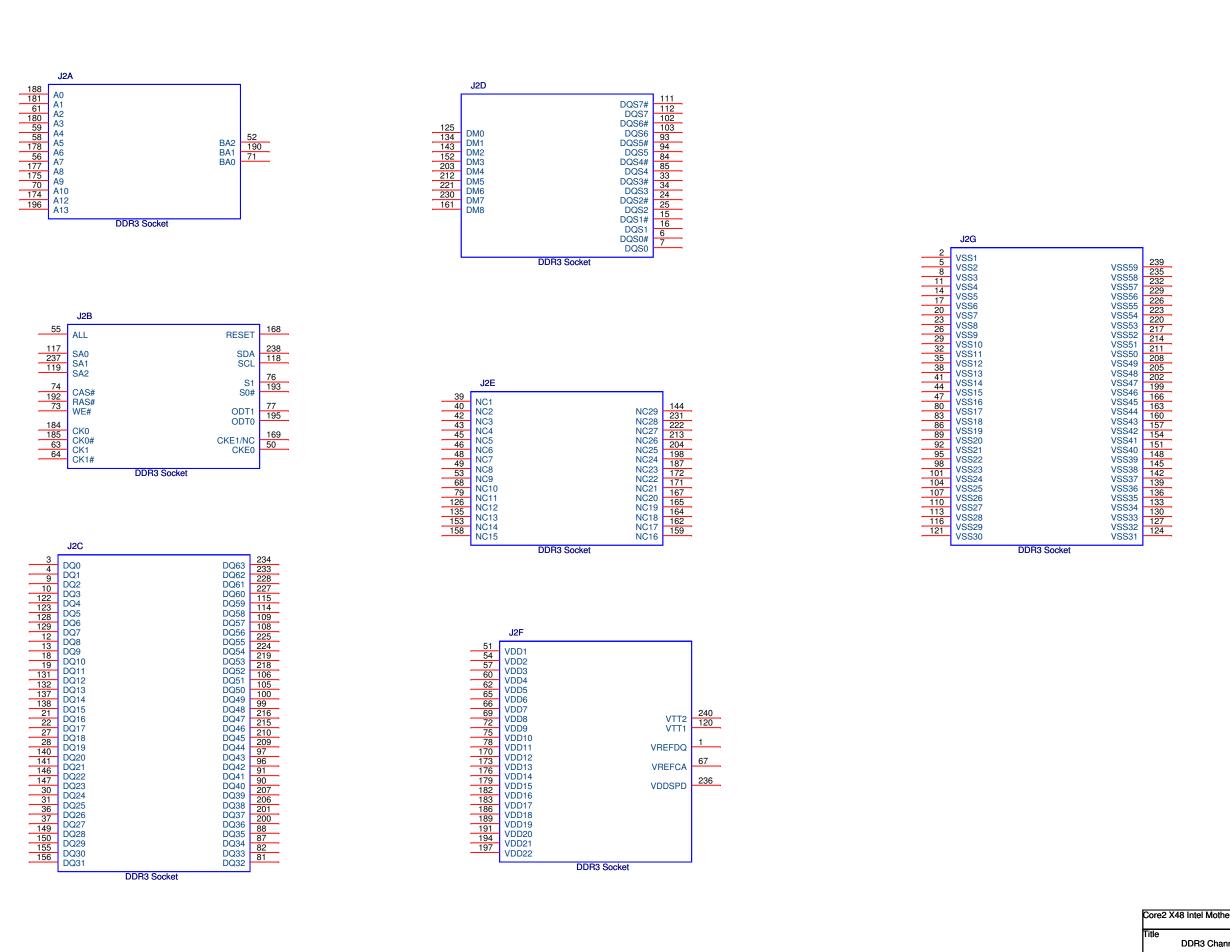
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X48 Express



Core2 X48 Intel Motherboard X48 Express Northbridge VCC Document Number Rev 1.0 Friday, August 20, 2010

U1W U1X AA20 AA22 W31 M15 VSS B2 VSS AA12 VSS AA20 VSS W31 AA8 Y43 Y27 Y25 VSS_BE38 VSS_AA22 VSS_AA8 VSS_M15 K16 VSS_BE34 VSS_AA24 VSS_Y43 VSS_K16 AA26 H16 VSS_Y27 VSS_Y25 VSS_H16 VSS_F22 VSS BE30 VSS AA26 BE26 VSS BE26 VSS AA32 Y23 Y21 Y19 AA34 AA36 D24 D22 VSS_BE23 VSS_AA34 VSS_Y23 VSS_D24 VSS_BE18 VSS_AA36 VSS_Y21 VSS_D22 AA39 AB19 VSS AA39 VSS_BE14 VSS Y19 VSS D21 W39 VSS BE10 VSS AB19 VSS W39 VSS C24 AB21 VSS_BE6 VSS_AB21 VSS_W35 VSS_C23 AB23 AB25 AB27 VSS_W26 VSS_W24 VSS_BB3 VSS_BA5 VSS BE3 VSS AB23 W24 VSS BD2 VSS AB25 BA4 W22 VSS_BC43 VSS_AB27 VSS_W22 VSS_BA4 AB33 AB36 VSS_AB33 VSS_AB36 VSS_BC16 VSS_W20 VSS_B21 W14 VSS_BC12 VSS_W14 VSS B17 W13 W6 V45 AB45 VSS BC8 VSS AB45 VSS W13 VSS AY3 AC1 AC8 VSS_BC3 VSS_AC1 VSS_W6 VSS_AY1 VSS_AC8 VSS_AC12 VSS_BC1 VSS_BB2 VSS_V45 VSS_V40 VSS_AW2 VSS_A24 BB2 IAY36 AC12 V40 V36 A24 A3 VSS_AY36 VSS_AC14 VSS_V36 VSS_A3 AC20 AC22 AC24 AC26 V33 VSS_AC20 VSS_AC22 VSS_AC24 VSS_A6 VSS_A10 VSS_A14 VSS_AY33 VSS_V33 AW40 VSS_AY10 VSS_AW40 VSS_V27 V25 V23 A14 VSS V25 AW35 A18 VSS_A18 A22 VSS AW35 VSS AC26 VSS V23 VSS_AW31 VSS_AC32 VSS_V21 VSS_A22 AW28 AW27 AC35 V19 A26 A34 VSS_AW28 VSS AC35 VSS V19 VSS A26 VSS_AC38 VSS_V13 VSS_A34 VSS_AW27 AW21 AC43 VSS_AW21 VSS_AC43 VSS_V8 VSS_A36 T43 AD1 AD6 VSS_AD1 VSS_AD6 VSS_T43 VSS_T35 VSS_A40 VSS_A43 VSS_AW18 AW15 A43 VSS AW15 AW7 B29 B44 AD13 AD19 AW4 VSS_AW7 VSS AD13 VSS T32 VSS B29 VSS_AW4 VSS_AD19 VSS_T13 VSS_B44 IAV45 IAV43 IAV34 AD21 AD23 AD25 VSS_C1 VSS_C3 VSS_AV45 VSS_AV43 VSS_AD21 VSS_AD23 VSS_T11 VSS_T6 R40 VSS_AV34 VSS_AD25 VSS_R40 VSS_C9 AD27 AD34 AD38 AV28 VSS_AV28 VSS_AD27 VSS_AD34 VSS_R38 VSS_C20 VSS_C22 R34 R21 R13 R12 VSS_AV24 VSS R34 AV23 AV22 VSS AV23 VSS AD38 VSS R21 VSS C30 AD45 VSS_AV22 VSS_AD45 VSS_R13 VSS_C34 AE4 AV13 AV13 VSS_AV13 AV12 VSS_AV12 AV11 VSS_AE4 VSS_AE8 VSS_R12 VSS_R11 VSS_C38 VSS_C43 AE8 AE12 AE20 R11 R8 R4 VSS_AE12 VSS_R8 VSS_C45 AV11 VSS_AV11 AV6 VSS_AV10 VSS_AV6 P45
P32
P27
P25
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P22 VSS_AE20 VSS_R4 VSS_D4 AE22 VSS_D7 VSS_D11 VSS_AE22 VSS_AE24 VSS_P45 VSS_P32 AV4 AV4 AV3 AV1 VSS_AV3 AU3 VSS_AV1 AT45 VSS_AU3 VSS_AV4 VSS_AE26 VSS_P27 VSS_D13 AE32 AE36 AF19 VSS_AE32 VSS_P25 VSS_D15 VSS AE36 VSS D17 VSS P24 VSS AF19 VSS P23 VSS D23 AF21 AT39 VSS_AT45
IAT30 VSS_AT39
IAT28 VSS_AT30
VSS_AT24
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Core2 X48 Intel Motherboard

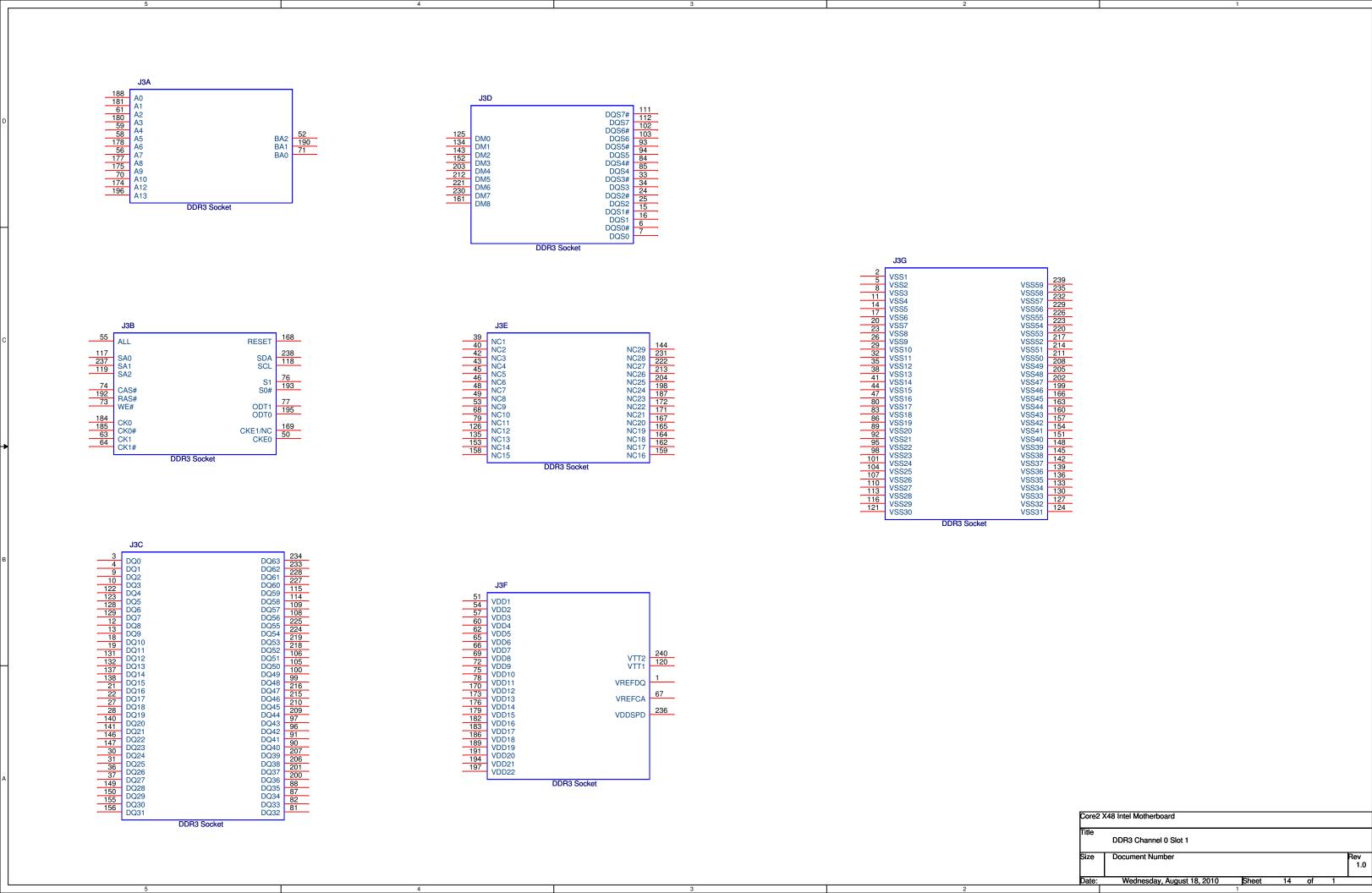
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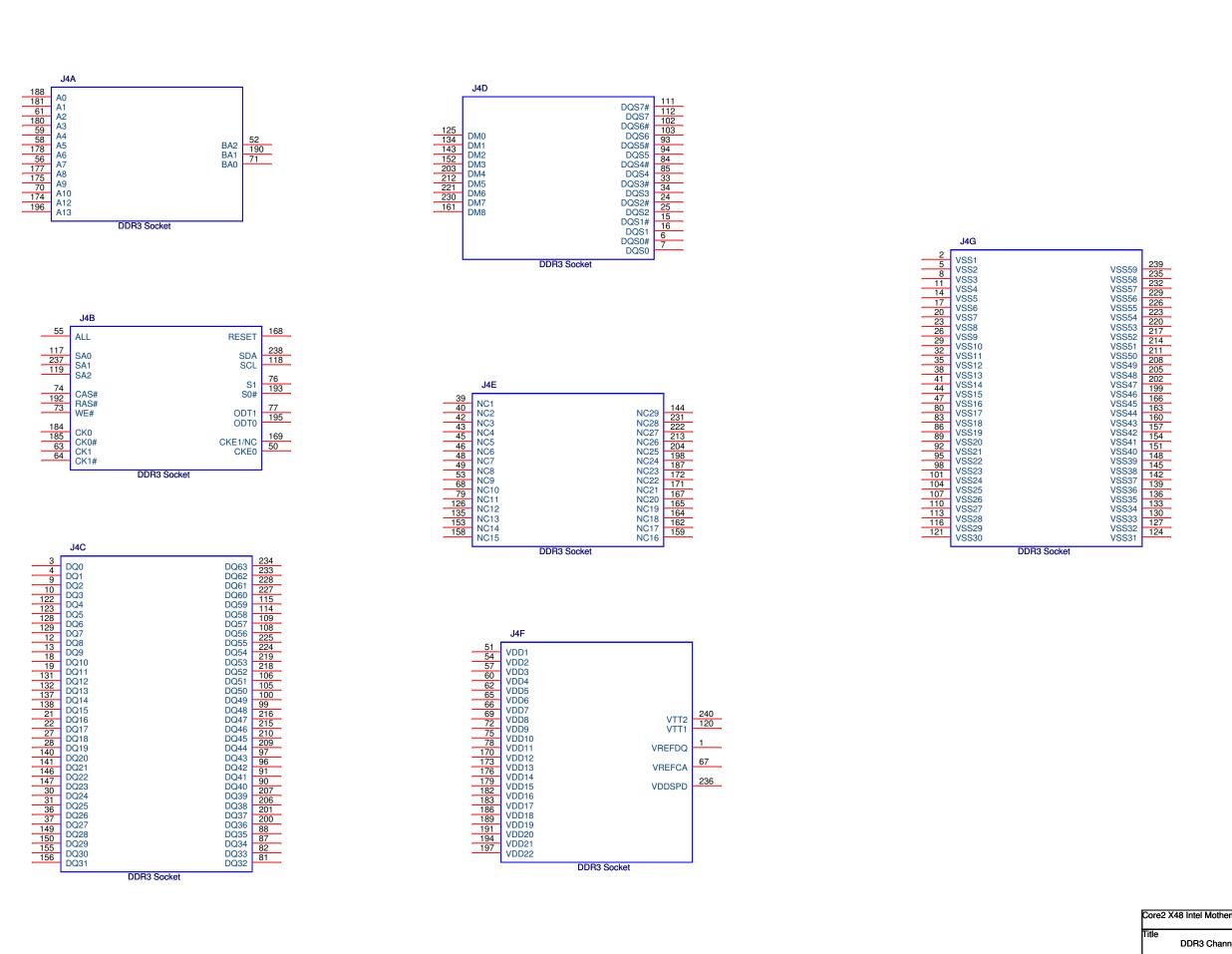
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Size Document Number Rev
1.0

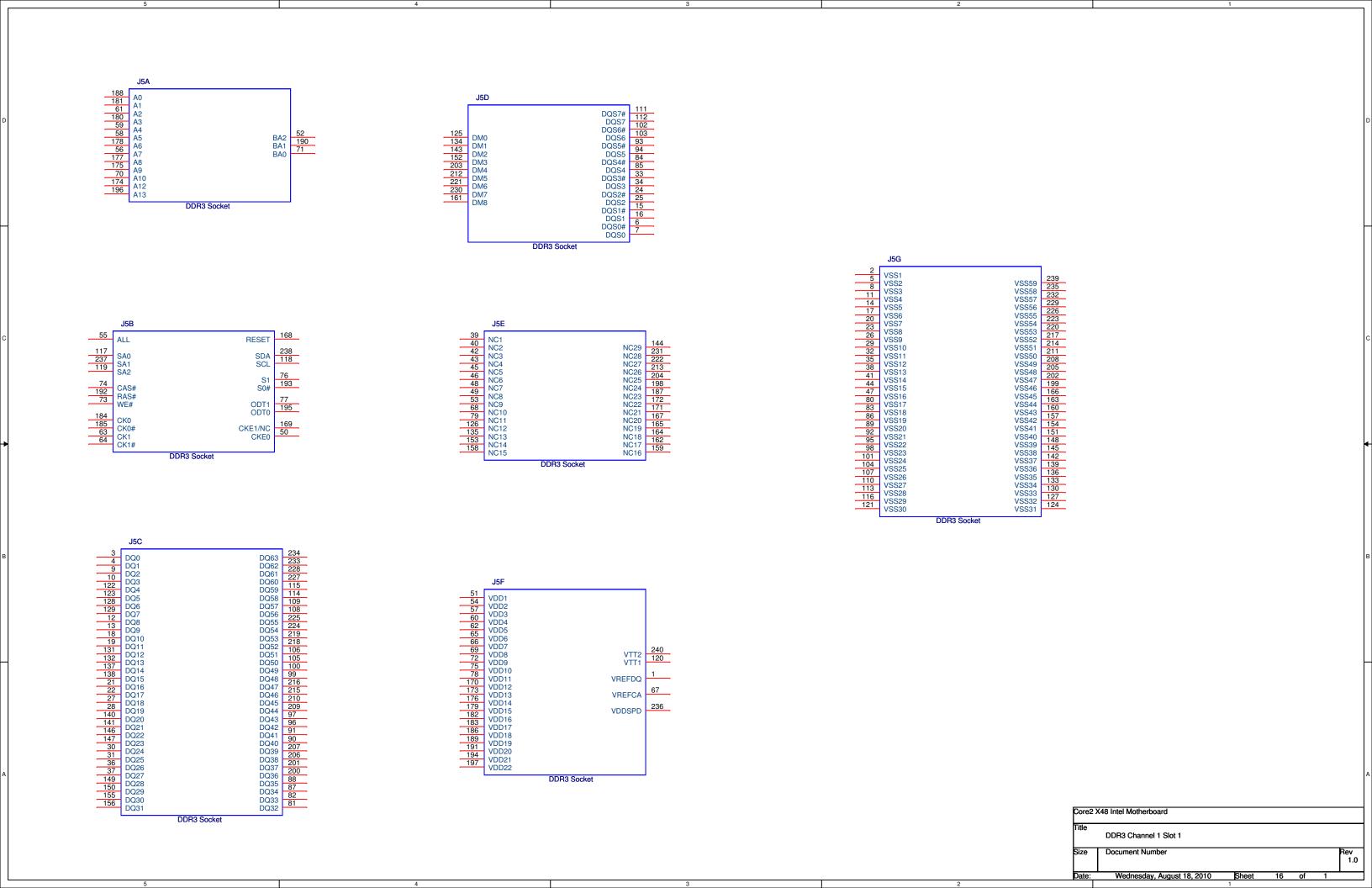
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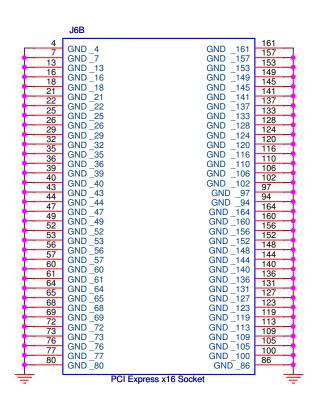
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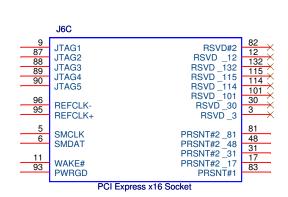


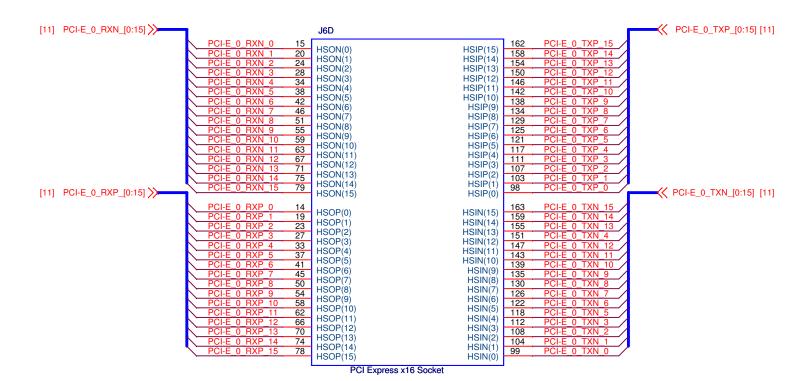


Core2 X48 Intel Motherboard DDR3 Channel 1 Slot 0 Document Number Rev 1.0 Wednesday, August 18, 2010



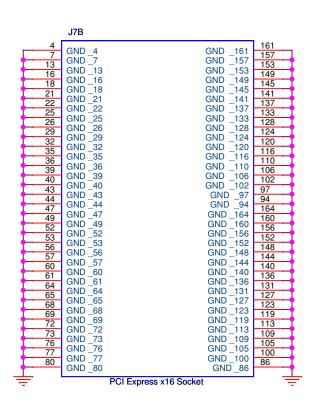


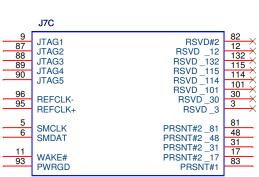




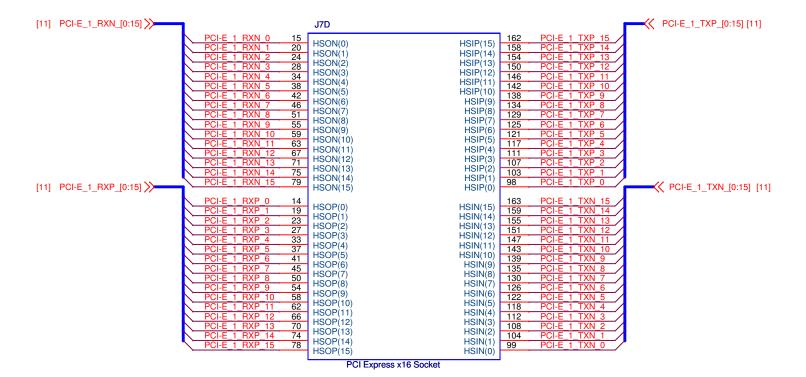


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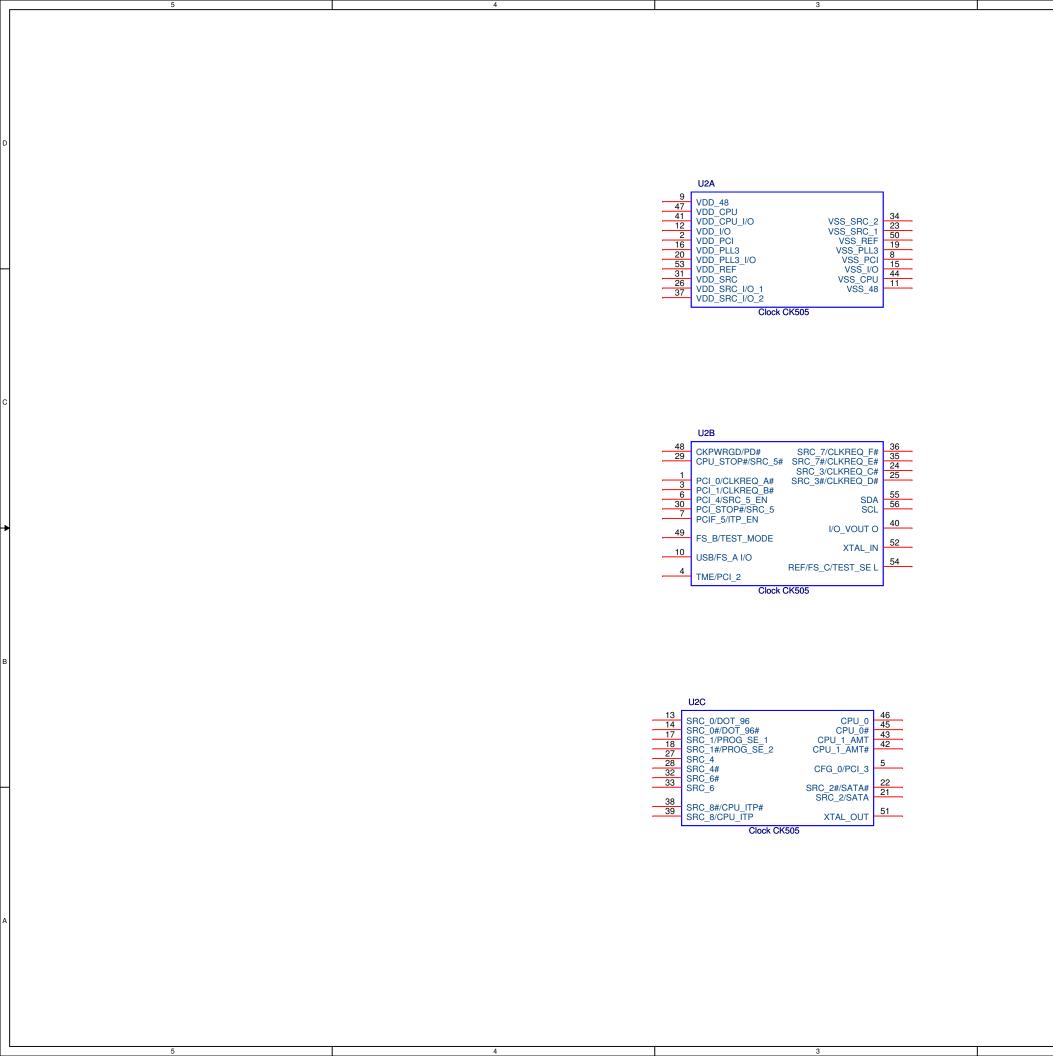


PCI Express x16 Socket





| Core2 | X48 Intel Motherboard | | | | | |
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| Core2 | X48 Intel Motherboard | | | | | |
|-------|----------------------------|-------|----|----|---|------------|
| Title | Clock Synthesizer | | | | | |
| Size | Document Number | | | | | Rev 1.0 |
| Date: | Wednesday, August 18, 2010 | Sheet | 19 | of | 1 | |