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# ##### Core #####
set_location_assignment PIN_23 -to CLK

set_location_assignment PIN_125 -to RESET

#LED
set_location_assignment PIN_3 -to LED[0]
set_location_assignment PIN_7 -to LED[1]
set_location_assignment PIN_10 -to LED[2]
set_location_assignment PIN_11 -to LED[3]

#EPCS
set_location_assignment PIN_12 -to EPCS_CLK
set_location_assignment PIN_13 -to EPCS_DATA0
set_location_assignment PIN_8 -to EPCS_SCE
set_location_assignment PIN_6 -to EPCS_SDO

# Herder_Left(just for reference, can't be Actual Settings of Tcl)
set_location_assignment H_LEFT_1 -to GND
set_location_assignment H_LEFT_2 -to 3.3V
set_location_assignment H_LEFT_3 -to PIN_59
set_location_assignment H_LEFT_4 -to PIN_60
set_location_assignment H_LEFT_5 -to PIN_64
set_location_assignment H_LEFT_6 -to PIN_65
set_location_assignment H_LEFT_7 -to PIN_66
set_location_assignment H_LEFT_8 -to PIN_67
set_location_assignment H_LEFT_9 -to PIN_68
set_location_assignment H_LEFT_10 -to PIN_69
set_location_assignment H_LEFT_11 -to PIN_70
set_location_assignment H_LEFT_12 -to PIN_71
set_location_assignment H_LEFT_13 -to PIN_72
set_location_assignment H_LEFT_14 -to PIN_73
set_location_assignment H_LEFT_15 -to PIN_74
set_location_assignment H_LEFT_16 -to PIN_75
set_location_assignment H_LEFT_17 -to PIN_76
set_location_assignment H_LEFT_18 -to PIN_77
set_location_assignment H_LEFT_19 -to PIN_80
set_location_assignment H_LEFT_20 -to PIN_83
set_location_assignment H_LEFT_21 -to PIN_84
set_location_assignment H_LEFT_22 -to PIN_85
set_location_assignment H_LEFT_23 -to GND
set_location_assignment H_LEFT_24 -to 5V
set_location_assignment H_LEFT_25 -to PIN_86
set_location_assignment H_LEFT_26 -to PIN_87
set_location_assignment H_LEFT_27 -to PIN_98
set_location_assignment H_LEFT_28 -to PIN_99
set_location_assignment H_LEFT_29 -to PIN_100
set_location_assignment H_LEFT_30 -to PIN_101
set_location_assignment H_LEFT_31 -to PIN_103
set_location_assignment H_LEFT_32 -to PIN_104
set_location_assignment H_LEFT_33 -to PIN_105
set_location_assignment H_LEFT_34 -to PIN_106
set_location_assignment H_LEFT_35 -to PIN_110
set_location_assignment H_LEFT_36 -to PIN_111
set_location_assignment H_LEFT_37 -to PIN_112
set_location_assignment H_LEFT_38 -to PIN_113
set_location_assignment H_LEFT_39 -to PIN_114
set_location_assignment H_LEFT_40 -to PIN_115
set_location_assignment H_LEFT_41 -to PIN_119
set_location_assignment H_LEFT_42 -to PIN_120
set_location_assignment H_LEFT_43 -to PIN_121
set_location_assignment H_LEFT_44 -to PIN_124

# Herder_Right(just for reference, can't be Actual Settings of Tcl)
set_location_assignment H_Right_1 -to GND

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set_location_assignment H_Right_2 -to 3.3V
set_location_assignment H_Right_3 -to PIN_58
set_location_assignment H_Right_4 -to PIN_55
set_location_assignment H_Right_5 -to PIN_54
set_location_assignment H_Right_6 -to PIN_53
set_location_assignment H_Right_7 -to PIN_52
set_location_assignment H_Right_8 -to PIN_51
set_location_assignment H_Right_9 -to PIN_50
set_location_assignment H_Right_10 -to PIN_49
set_location_assignment H_Right_11 -to PIN_46
set_location_assignment H_Right_12 -to PIN_44
set_location_assignment H_Right_13 -to PIN_43
set_location_assignment H_Right_14 -to PIN_42
set_location_assignment H_Right_15 -to PIN_39
set_location_assignment H_Right_16 -to PIN_38
set_location_assignment H_Right_17 -to PIN_34
set_location_assignment H_Right_18 -to PIN_33
set_location_assignment H_Right_19 -to PIN_32
set_location_assignment H_Right_20 -to PIN_31
set_location_assignment H_Right_21 -to PIN_30
set_location_assignment H_Right_22 -to PIN_28
set_location_assignment H_Right_23 -to GND
set_location_assignment H_Right_24 -to 5V
set_location_assignment H_Right_25 -to PIN_11
set_location_assignment H_Right_26 -to PIN_10
set_location_assignment H_Right_27 -to PIN_7
set_location_assignment H_Right_28 -to PIN_3
set_location_assignment H_Right_29 -to PIN_2
set_location_assignment H_Right_30 -to PIN_1
set_location_assignment H_Right_31 -to PIN_144
set_location_assignment H_Right_32 -to PIN_143
set_location_assignment H_Right_33 -to PIN_142
set_location_assignment H_Right_34 -to PIN_141
set_location_assignment H_Right_35 -to PIN_138
set_location_assignment H_Right_36 -to PIN_137
set_location_assignment H_Right_37 -to PIN_136
set_location_assignment H_Right_38 -to PIN_135
set_location_assignment H_Right_39 -to PIN_133
set_location_assignment H_Right_40 -to PIN_132
set_location_assignment H_Right_41 -to PIN_129
set_location_assignment H_Right_42 -to PIN_128
set_location_assignment H_Right_43 -to PIN_127
set_location_assignment H_Right_44 -to PIN_126

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#####
##### DVK601
#####
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```
#Buzzer
set_location_assignment Buz -to PIN_1
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#DS18B20
set_location_assignment DS18B20 -to PIN_2
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```
#JOYSTICK
set_location_assignment DOWN -to PIN_142
set_location_assignment LEFT -to PIN_141
set_location_assignment RIGHT -to PIN_138
set_location_assignment UP -to PIN_137
set_location_assignment press -to PIN_136
# H1
set_location_assignment H1_1 -to PIN_59
set_location_assignment H1_2 -to PIN_60
set_location_assignment H1_3 -to PIN_64
set_location_assignment H1_4 -to PIN_65
set_location_assignment H1_5 -to PIN_66
set_location_assignment H1_6 -to PIN_67
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```
set_location_assignment H1_7 -to PIN_68
set_location_assignment H1_8 -to PIN_69
set_location_assignment H1_9 -to PIN_70
set_location_assignment H1_10 -to PIN_71
set_location_assignment H1_11 -to PIN_72
set_location_assignment H1_12 -to PIN_73
set_location_assignment H1_13 -to PIN_74
set_location_assignment H1_14 -to PIN_75
set_location_assignment H1_15 -to PIN_76
set_location_assignment H1_16 -to PIN_77
set_location_assignment H1_17 -to PIN_80
set_location_assignment H1_18 -to PIN_83
set_location_assignment H1_19 -to PIN_84
set_location_assignment H1_20 -to PIN_85

set_location_assignment H1_21 -to PIN_86
set_location_assignment H1_22 -to PIN_87
set_location_assignment H1_23 -to PIN_98
set_location_assignment H1_24 -to PIN_99
set_location_assignment H1_25 -to PIN_100
set_location_assignment H1_26 -to PIN_101
set_location_assignment H1_27 -to PIN_103
set_location_assignment H1_28 -to PIN_104
set_location_assignment H1_29 -to PIN_105
set_location_assignment H1_30 -to PIN_106
set_location_assignment H1_31 -to PIN_110
set_location_assignment H1_32 -to PIN_111
set_location_assignment H1_33 -to PIN_112
set_location_assignment H1_34 -to PIN_113
set_location_assignment H1_35 -to PIN_114
set_location_assignment H1_36 -to PIN_115
set_location_assignment H1_37 -to PIN_119
set_location_assignment H1_38 -to PIN_120
set_location_assignment H1_39 -to PIN_121
set_location_assignment H1_40 -to PIN_124
```

H2

```
set_location_assignment H2_1 -to PIN_58
set_location_assignment H2_2 -to PIN_55
set_location_assignment H2_3 -to PIN_54
set_location_assignment H2_4 -to PIN_53
set_location_assignment H2_5 -to PIN_52
set_location_assignment H2_6 -to PIN_51
set_location_assignment H2_7 -to PIN_50
set_location_assignment H2_8 -to PIN_49
set_location_assignment H2_9 -to PIN_46
set_location_assignment H2_10 -to PIN_44
set_location_assignment H2_11 -to PIN_43
set_location_assignment H2_12 -to PIN_42
set_location_assignment H2_13 -to PIN_39
set_location_assignment H2_14 -to PIN_38
set_location_assignment H2_15 -to PIN_34
set_location_assignment H2_16 -to PIN_33
set_location_assignment H2_17 -to PIN_32
set_location_assignment H2_18 -to PIN_31
set_location_assignment H2_19 -to PIN_30
set_location_assignment H2_20 -to PIN_28

set_location_assignment H2_21 -to PIN_11
set_location_assignment H2_22 -to PIN_10
set_location_assignment H2_23 -to PIN_7
set_location_assignment H2_24 -to PIN_3
set_location_assignment H2_25 -to PIN_2
set_location_assignment H2_26 -to PIN_1
```

```
set_location_assignment H2_27 -to PIN_144
set_location_assignment H2_28 -to PIN_143
set_location_assignment H2_29 -to PIN_142
set_location_assignment H2_30 -to PIN_141
set_location_assignment H2_31 -to PIN_138
set_location_assignment H2_32 -to PIN_137
set_location_assignment H2_33 -to PIN_136
set_location_assignment H2_34 -to PIN_135
set_location_assignment H2_35 -to PIN_133
set_location_assignment H2_36 -to PIN_132
set_location_assignment H2_37 -to PIN_129
set_location_assignment H2_38 -to PIN_128
set_location_assignment H2_39 -to PIN_127
set_location_assignment H2_40 -to PIN_126
```

#SDRAM

```
set_location_assignment PIN_54 -to RA[0]
set_location_assignment PIN_53 -to RA[1]
set_location_assignment PIN_58 -to RA[2]
set_location_assignment PIN_55 -to RA[3]
set_location_assignment PIN_60 -to RA[4]
set_location_assignment PIN_59 -to RA[5]
set_location_assignment PIN_65 -to RA[6]
set_location_assignment PIN_64 -to RA[7]
set_location_assignment PIN_67 -to RA[8]
set_location_assignment PIN_66 -to RA[9]
set_location_assignment PIN_51 -to RA[10]
set_location_assignment PIN_69 -to RA[11]
set_location_assignment PIN_68 -to RA[12]
```

```
set_location_assignment PIN_30 -to DQ[0]
set_location_assignment PIN_28 -to DQ[1]
set_location_assignment PIN_32 -to DQ[2]
set_location_assignment PIN_31 -to DQ[3]
set_location_assignment PIN_34 -to DQ[4]
set_location_assignment PIN_33 -to DQ[5]
set_location_assignment PIN_39 -to DQ[6]
set_location_assignment PIN_38 -to DQ[7]
set_location_assignment PIN_72 -to DQ[8]
set_location_assignment PIN_75 -to DQ[9]
set_location_assignment PIN_74 -to DQ[10]
set_location_assignment PIN_77 -to DQ[11]
set_location_assignment PIN_76 -to DQ[12]
set_location_assignment PIN_83 -to DQ[13]
set_location_assignment PIN_80 -to DQ[14]
set_location_assignment PIN_85 -to DQ[15]
```

```
set_location_assignment PIN_70 -to S_CLK
#UMQM
set_location_assignment PIN_73 -to S_DQM[1]
#LDQM
set_location_assignment PIN_43 -to S_DQM[0]
set_location_assignment PIN_52 -to BA[1]
set_location_assignment PIN_49 -to BA[0]
```

```
set_location_assignment PIN_50 -to CS
set_location_assignment PIN_46 -to CAS
set_location_assignment PIN_44 -to RAS
set_location_assignment PIN_42 -to WE
set_location_assignment PIN_71 -to CKE
```

#LCD12864

```
set_location_assignment PIN_98 -to RS
set_location_assignment PIN_100 -to R/W
set_location_assignment PIN_101 -to E
```

```

set_location_assignment PIN_103 -to D0
set_location_assignment PIN_104 -to D1
set_location_assignment PIN_105 -to D2
set_location_assignment PIN_106 -to D3
set_location_assignment PIN_110 -to D4
set_location_assignment PIN_111 -to D5
set_location_assignment PIN_112 -to D6
set_location_assignment PIN_113 -to D7
set_location_assignment PIN_114 -to PSB
set_location_assignment PIN_115 -to RST
set_location_assignment PIN_120 -to
set_location_assignment PIN_121 -to A
set_location_assignment PIN_124 -to K

#LCD1602
set_location_assignment PIN_98 -to RS
set_location_assignment PIN_100 -to R/W
set_location_assignment PIN_101 -to E
set_location_assignment PIN_103 -to D0
set_location_assignment PIN_104 -to D1
set_location_assignment PIN_105 -to D2
set_location_assignment PIN_106 -to D3
set_location_assignment PIN_110 -to D4
set_location_assignment PIN_111 -to D5
set_location_assignment PIN_112 -to D6
set_location_assignment PIN_113 -to D7
set_location_assignment PIN_114 -to A
set_location_assignment PIN_115 -to K
#LCD22
set_location_assignment PIN_106 -to IRQ
set_location_assignment PIN_111 -to DCS
set_location_assignment PIN_112 -to DCLK
set_location_assignment PIN_113 -to DIN
set_location_assignment PIN_114 -to DOUT
set_location_assignment PIN_115 -to RST
set_location_assignment PIN_119 -to SCI
set_location_assignment PIN_120 -to SCLK
set_location_assignment PIN_121 -to CS
set_location_assignment PIN_124 -to RS
#8I/Os_1
set_location_assignment PIN_112 -to 8I/Os_1_8
set_location_assignment PIN_113 -to 8I/Os_1_7
set_location_assignment PIN_114 -to 8I/Os_1_6
set_location_assignment PIN_115 -to 8I/Os_1_5
set_location_assignment PIN_119 -to 8I/Os_1_4
set_location_assignment PIN_120 -to 8I/Os_1_3
set_location_assignment PIN_121 -to 8I/Os_1_2
set_location_assignment PIN_124 -to 8I/Os_1_1
#8I/Os_2
set_location_assignment PIN_3 -to 8I/Os_2_8
set_location_assignment PIN_7 -to 8I/Os_2_7
set_location_assignment PIN_10 -to 8I/Os_2_6
set_location_assignment PIN_11 -to 8I/Os_2_5
set_location_assignment PIN_28 -to 8I/Os_2_4
set_location_assignment PIN_30 -to 8I/Os_2_3
set_location_assignment PIN_31 -to 8I/Os_2_2
set_location_assignment PIN_32 -to 8I/Os_2_1
#16I/Os_1
set_location_assignment PIN_58 -to 16I/Os_1_1
set_location_assignment PIN_55 -to 16I/Os_1_2
set_location_assignment PIN_54 -to 16I/Os_1_3
set_location_assignment PIN_53 -to 16I/Os_1_4
set_location_assignment PIN_52 -to 16I/Os_1_5
set_location_assignment PIN_51 -to 16I/Os_1_6
set_location_assignment PIN_50 -to 16I/Os_1_7

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set_location_assignment PIN_49	-to	16I/Os_1_8
set_location_assignment PIN_46	-to	16I/Os_1_9
set_location_assignment PIN_44	-to	16I/Os_1_10
set_location_assignment PIN_43	-to	16I/Os_1_11
set_location_assignment PIN_42	-to	16I/Os_1_12
set_location_assignment PIN_39	-to	16I/Os_1_13
set_location_assignment PIN_38	-to	16I/Os_1_14
set_location_assignment PIN_34	-to	16I/Os_1_15
set_location_assignment PIN_33	-to	16I/Os_1_16
#16I/Os_2		
set_location_assignment PIN_2	-to	16I/Os_2_1
set_location_assignment PIN_1	-to	16I/Os_2_2
set_location_assignment PIN_144	-to	16I/Os_2_3
set_location_assignment PIN_143	-to	16I/Os_2_4
set_location_assignment PIN_142	-to	16I/Os_2_5
set_location_assignment PIN_141	-to	16I/Os_2_6
set_location_assignment PIN_138	-to	16I/Os_2_7
set_location_assignment PIN_137	-to	16I/Os_2_8
set_location_assignment PIN_136	-to	16I/Os_2_9
set_location_assignment PIN_135	-to	16I/Os_2_10
set_location_assignment PIN_133	-to	16I/Os_2_11
set_location_assignment PIN_132	-to	16I/Os_2_12
set_location_assignment PIN_129	-to	16I/Os_2_13
set_location_assignment PIN_128	-to	16I/Os_2_14
set_location_assignment PIN_127	-to	16I/Os_2_15
set_location_assignment PIN_126	-to	16I/Os_2_16
#32I/Os_1		
set_location_assignment PIN_111	-to	32I/Os_1_1
set_location_assignment PIN_110	-to	32I/Os_1_2
set_location_assignment PIN_106	-to	32I/Os_1_3
set_location_assignment PIN_105	-to	32I/Os_1_4
set_location_assignment PIN_104	-to	32I/Os_1_5
set_location_assignment PIN_103	-to	32I/Os_1_6
set_location_assignment PIN_101	-to	32I/Os_1_7
set_location_assignment PIN_100	-to	32I/Os_1_8
set_location_assignment PIN_99	-to	32I/Os_1_9
set_location_assignment PIN_98	-to	32I/Os_1_10
set_location_assignment PIN_87	-to	32I/Os_1_11
set_location_assignment PIN_86	-to	32I/Os_1_12
set_location_assignment PIN_85	-to	32I/Os_1_13
set_location_assignment PIN_84	-to	32I/Os_1_14
set_location_assignment PIN_83	-to	32I/Os_1_15
set_location_assignment PIN_80	-to	32I/Os_1_16
set_location_assignment PIN_77	-to	32I/Os_1_17
set_location_assignment PIN_76	-to	32I/Os_1_18
set_location_assignment PIN_75	-to	32I/Os_1_19
set_location_assignment PIN_74	-to	32I/Os_1_20
set_location_assignment PIN_73	-to	32I/Os_1_21
set_location_assignment PIN_72	-to	32I/Os_1_22
set_location_assignment PIN_71	-to	32I/Os_1_23
set_location_assignment PIN_70	-to	32I/Os_1_24
set_location_assignment PIN_69	-to	32I/Os_1_25
set_location_assignment PIN_68	-to	32I/Os_1_26
set_location_assignment PIN_67	-to	32I/Os_1_27
set_location_assignment PIN_66	-to	32I/Os_1_28
set_location_assignment PIN_65	-to	32I/Os_1_29
set_location_assignment PIN_64	-to	32I/Os_1_30
set_location_assignment PIN_60	-to	32I/Os_1_31
set_location_assignment PIN_59	-to	32I/Os_1_32
#32I/Os_2		
set_location_assignment PIN_86	-to	32I/Os_2_1
set_location_assignment PIN_87	-to	32I/Os_2_2
set_location_assignment PIN_98	-to	32I/Os_2_3

set_location_assignment PIN_99 -to	32I/Os_2_4
set_location_assignment PIN_100 -to	32I/Os_2_5
set_location_assignment PIN_101 -to	32I/Os_2_6
set_location_assignment PIN_103 -to	32I/Os_2_7
set_location_assignment PIN_104 -to	32I/Os_2_8
set_location_assignment PIN_105 -to	32I/Os_2_9
set_location_assignment PIN_106 -to	32I/Os_2_10
set_location_assignment PIN_110 -to	32I/Os_2_11
set_location_assignment PIN_111 -to	32I/Os_2_12
set_location_assignment PIN_112 -to	32I/Os_2_13
set_location_assignment PIN_113 -to	32I/Os_2_14
set_location_assignment PIN_114 -to	32I/Os_2_15
set_location_assignment PIN_115 -to	32I/Os_2_16
set_location_assignment PIN_119 -to	32I/Os_2_17
set_location_assignment PIN_120 -to	32I/Os_2_18
set_location_assignment PIN_121 -to	32I/Os_2_19
set_location_assignment PIN_124 -to	32I/Os_2_20
set_location_assignment PIN_127 -to	32I/Os_2_21
set_location_assignment PIN_126 -to	32I/Os_2_22
set_location_assignment PIN_129 -to	32I/Os_2_23
set_location_assignment PIN_128 -to	32I/Os_2_24
set_location_assignment PIN_133 -to	32I/Os_2_25
set_location_assignment PIN_132 -to	32I/Os_2_26
set_location_assignment PIN_136 -to	32I/Os_2_27
set_location_assignment PIN_135 -to	32I/Os_2_28
set_location_assignment PIN_138 -to	32I/Os_2_29
set_location_assignment PIN_137 -to	32I/Os_2_30
set_location_assignment PIN_142 -to	32I/Os_2_31
set_location_assignment PIN_141 -to	32I/Os_2_32