```
;;;
```

```
  MIS0.D1 =  HRFQ17 * WRX * FLE
         +  HRFQ0 */WRX * FLE
  MIS0.CLKF =  CLK
  MIS0.RSTF =  INIT
  MIS0.FBK = /TMOD */FLE

AMAPADD2 :=  AMAPADD2.D1 Or AMAPADD2.D2  ; High density function block

  AMAPADD2.D1 =  HRFQ2 * WRX * FLE
         +  HRFQ6 */WRX * FLE
         +  TMOD * IVADD2
  AMAPADD2.CLKF =  CLK
  AMAPADD2.RSTF =  INIT
  AMAPADD2.FBK = /TMOD */FLE

AMAPADD1 :=  AMAPADD1.D1 Or AMAPADD1.D2  ; High density function block

  AMAPADD1.D1 =  HRFQ1 * WRX * FLE
         +  HRFQ5 */WRX * FLE
         +  TMOD * IVADD1
  AMAPADD1.CLKF =  CLK
  AMAPADD1.RSTF =  INIT
  AMAPADD1.FBK = /TMOD */FLE

AMAPADD0 :=  AMAPADD0.D1 Or AMAPADD0.D2  ; High density function block

  AMAPADD0.D1 =  HRFQ0 * WRX * FLE
         +  HRFQ4 */WRX * FLE
         +  TMOD * IVADD0
  AMAPADD0.CLKF =  CLK
  AMAPADD0.RSTF =  INIT
  AMAPADD0.FBK = /TMOD */FLE

BMAPADD2 :=  BMAPADD2.D1 Or BMAPADD2.D2  ; High density function block

  BMAPADD2.D1 =  HRFQ2 * WRX * FLE
         +  HRFQ6 */WRX * FLE
         +  TMOD * IVADD2
  BMAPADD2.CLKF =  CLK
  BMAPADD2.RSTF =  INIT
  BMAPADD2.FBK = /TMOD */FLE

BMAPADD1 :=  BMAPADD1.D1 Or BMAPADD1.D2  ; High density function block

  BMAPADD1.D1 =  HRFQ1 * WRX * FLE
         +  HRFQ5 */WRX * FLE
         +  TMOD * IVADD1
  BMAPADD1.CLKF =  CLK
  BMAPADD1.RSTF =  INIT
  BMAPADD1.FBK = /TMOD */FLE

BMAPADD0 :=  BMAPADD0.D1 Or BMAPADD0.D2  ; High density function block

  BMAPADD0.D1 =  HRFQ0 * WRX * FLE
         +  HRFQ4 */WRX * FLE
         +  TMOD * IVADD0
  BMAPADD0.CLKF =  CLK
  BMAPADD0.RSTF =  INIT
  BMAPADD0.FBK = /TMOD */FLE

CMAPADD2 :=  CMAPADD2.D1 Or CMAPADD2.D2  ; High density function block
```



```
  CMAPADD2.D1 =  HRFQ2 * WRX * FLE
         +  HRFQ6 */WRX * FLE
         +  TMOD * IVADD2
  CMAPADD2.CLKF =  CLK
  CMAPADD2.RSTF =  INIT
  CMAPADD2.FBK = /TMOD */FLE

CMAPADD1 :=  CMAPADD1.D1 Or CMAPADD1.D2  ; High density function block

  CMAPADD1.D1 =  HRFQ1 * WRX * FLE
         +  HRFQ5 */WRX * FLE
         +  TMOD * IVADD1
  CMAPADD1.CLKF =  CLK
  CMAPADD1.RSTF =  INIT
  CMAPADD1.FBK = /TMOD */FLE

CMAPADD0 :=  CMAPADD0.D1 Or CMAPADD0.D2  ; High density function block

  CMAPADD0.D1 =  HRFQ0 * WRX * FLE
         +  HRFQ4 */WRX * FLE
         +  TMOD * IVADD0
  CMAPADD0.CLKF =  CLK
  CMAPADD0.RSTF =  INIT
  CMAPADD0.FBK = /TMOD */FLE

AMCSX0D  = /TMOD * EE */SM1Q0 */READY */TRAIL */CLRTAG */HPOKX
      +  UIM_4
      + /TMOD * SM1Q0 */READY */TRAIL */CLRTAG */NRLE
      + /TMOD */SM1Q0 */READY * TRAIL */CLRTAG */NRLE    ; Fast function block

/AMCSX0 := /EE * SM1Q0 * READY */TRAIL */CLRTAG * LAST2
      +  AMCSX0D    ; High density function block
  AMCSX0.CLKF =  CLK
  AMCSX0.PRLD =  VCC


/AMCSX1 := /TMOD */SM1Q0 * READY */TRAIL */CLRTAG * LAYCN0 */LAYCN1
           */LAYCN2 */LAST2
      + /TMOD */SM1Q0 * READY */TRAIL */CLRTAG * IHOLD * LAYCN0
           */LAYCN1 */LAYCN2
      +  IVADD17 */IVADD18 */IVADD19 */AMVMEX
      + /TMOD */EE * NRLE    ; High density function block
  AMCSX1.CLKF =  CLK
  AMCSX1.PRLD =  VCC


/AMCSX2 := /TMOD */SM1Q0 * READY */TRAIL */CLRTAG */IHOLD */LAST1
           * LAYCN0 */LAYCN1 */LAYCN2 * LAST2
      + /TMOD */SM1Q0 * READY */TRAIL */CLRTAG */LAYCN0 * LAYCN1
           */LAYCN2 */LAST2
      + /TMOD */SM1Q0 * READY */TRAIL */CLRTAG * IHOLD */LAYCN0
           * LAYCN1 */LAYCN2
      + /IVADD17 * IVADD18 */IVADD19 */AMVMEX    ; High density function block
  AMCSX2.CLKF =  CLK
  AMCSX2.PRLD =  VCC


/AMCSX3 := /TMOD */SM1Q0 * READY */TRAIL */CLRTAG */IHOLD */LAST1
           */LAYCN0 * LAYCN1 */LAYCN2 * LAST2
      + /TMOD */SM1Q0 * READY */TRAIL */CLRTAG * LAYCN0 * LAYCN1
           */LAYCN2 */LAST2
```

```
       + /TMOD */SM1Q0 * READY */TRAIL */CLRTAG * IHOLD * LAYCN0
           * LAYCN1 */LAYCN2
       +  IVADD17 * IVADD18 */IVADD19 */AMVMEX    ; High density function block
   AMCSX3.CLKF =  CLK
   AMCSX3.PRLD =  VCC


/AMCSX4 := /TMOD */SM1Q0 * READY */TRAIL */CLRTAG */IHOLD */LAST1
           * LAYCN0 * LAYCN1 */LAYCN2 * LAST2
       + /TMOD */SM1Q0 * READY */TRAIL */CLRTAG */LAYCN0 */LAYCN1
           * LAYCN2 */LAST2
       + /TMOD */SM1Q0 * READY */TRAIL */CLRTAG * IHOLD */LAYCN0
           */LAYCN1 * LAYCN2
       + /IVADD17 */IVADD18 * IVADD19 */AMVMEX    ; High density function block
   AMCSX4.CLKF =  CLK
   AMCSX4.PRLD =  VCC


/AMCSX5 := /TMOD */SM1Q0 * READY */TRAIL */CLRTAG */IHOLD */LAST1
           */LAYCN0 */LAYCN1 * LAYCN2 * LAST2
       + /TMOD */SM1Q0 * READY */TRAIL */CLRTAG * LAYCN0 */LAYCN1
           * LAYCN2 */LAST2
       + /TMOD */SM1Q0 * READY */TRAIL */CLRTAG * IHOLD * LAYCN0
           */LAYCN1 * LAYCN2
       +  IVADD17 */IVADD18 * IVADD19 */AMVMEX    ; High density function block
   AMCSX5.CLKF =  CLK
   AMCSX5.PRLD =  VCC


/AMCSX6 := /TMOD */SM1Q0 * READY */TRAIL */CLRTAG */IHOLD */LAST1
           * LAYCN0 */LAYCN1 * LAYCN2 * LAST2
       + /TMOD */SM1Q0 * READY */TRAIL */CLRTAG */LAYCN0 * LAYCN1
           * LAYCN2 */LAST2
       + /TMOD */SM1Q0 * READY */TRAIL */CLRTAG * IHOLD */LAYCN0
           * LAYCN1 * LAYCN2
       + /IVADD17 * IVADD18 * IVADD19 */AMVMEX    ; High density function block
   AMCSX6.CLKF =  CLK
   AMCSX6.PRLD =  VCC


/AMCSX7 := /TMOD */SM1Q0 * READY */TRAIL */CLRTAG */IHOLD */LAST1
           */LAYCN0 * LAYCN1 * LAYCN2 * LAST2
       + /TMOD */SM1Q0 * READY */TRAIL */CLRTAG * LAYCN0 * LAYCN1
           * LAYCN2 */LAST2
       + /TMOD */SM1Q0 * READY */TRAIL */CLRTAG * IHOLD * LAYCN0
           * LAYCN1 * LAYCN2
       +  IVADD17 * IVADD18 * IVADD19 */AMVMEX    ; High density function block
   AMCSX7.CLKF =  CLK
   AMCSX7.PRLD =  VCC


/SSCSX := /TMOD */EE */SM1Q0 */READY */TRAIL
       + /TMOD */SM1Q0 */READY */TRAIL * UIM_7
       + /TMOD */SM1Q0 */READY */TRAIL * CLRTAG
       + /SSVMEX    ; High density function block
   SSCSX.CLKF =  CLK
   SSCSX.PRLD =  VCC


 HLE  = /SM1Q0 */READY */TRAIL */CLRTAG */HPOKX    ; Fast function block

 NRLE  = /RPOKX */SM1Q0 */READY * TRAIL */CLRTAG */IHOLD
```



```
       + /RPOKX * SM1Q0 */READY */TRAIL */CLRTAG    ; Fast function block

 LAST2  = /N2LAST0 */N2LAST1 */N2LAST2 */N2LAST3 */N2LAST4 */N2LAST5
           */N2LAST6 */N2LAST7 */N2LAST8 */N2LAST9    ; Fast function block

/HSTATE  = /HPOKX * FHQ1    ; UIM node

/HRDX  = /INIT */TMOD */SM1Q0 */READY */TRAIL * CLRTAG */HPOKX
           * FHQ1 * UIM_3
       + /INIT */TMOD */EE */SM1Q0 */READY */TRAIL */HPOKX * FHQ1
           * UIM_3
       + /INIT */TMOD * UIM_3 * HSTATE
       +  TMOD * HREVME    ; Fast function block

/RSTATE  = /RPOKX * FRQ1    ; Fast function block

/RRDX  = /TMOD */N2LAST0 */N2LAST1 */N2LAST2 */N2LAST3 */N2LAST4
           */N2LAST5 */N2LAST6 */N2LAST7 */N2LAST8 */N2LAST9 */RPOKX
           * FRQ1 * UIM_0 * UIM_2
       + /TMOD */RPOKX * FRQ1 * UIM_0 * PRERPOP1
       + /TMOD * UIM_0 * RSTATE
       +  TMOD * RREVME    ; Fast function block

/WRX := /TMOD */HRFQ22 */SM1Q0 */READY */TRAIL * FHLE
       + /TMOD */WRX */SM1Q0 */READY */TRAIL */FHLE
       + /TMOD */SM1Q0 */READY * TRAIL * CLRTAG
       +  TMOD * HOEVME    ; Fast function block
   WRX.CLKF =  CLK
   WRX.RSTF =  INIT

 RDX  = /TMOD */SM1Q0 */READY */TRAIL * HPOKX
       + /TMOD */EE */SM1Q0 */READY */TRAIL
       + /TMOD */SM1Q0 */READY * CLRTAG
       +  TMOD */ROEVME    ; Fast function block

/RESTAGX  =  INIT
       +  CLRTAG    ; High density function block

/FSMINIT  = /INIT */TMOD    ; UIM node

 FHLE  =  HPOKX */FHQ1
       + /SM1Q0 */READY */TRAIL * CLRTAG */HPOKX * FHQ1
       + /EE */SM1Q0 */READY */TRAIL */HPOKX * FHQ1    ; Fast function block

 PREFLE0  = /RPOKX * WRX * EE */TRAIL */CLRTAG */HPOKX * FRQ1 * UIM_8
       + /WRX */TRAIL * CLRTAG */HPOKX * FHQ1 * UIM_8
       + /WRX */EE */TRAIL */HPOKX * FHQ1 * UIM_8
       +  RPOKX * WRX */FRQ1
       + /WRX * HPOKX */FHQ1    ; High density function block

 PREFLE1  = /NLAY0 */NLAY1 */NLAY2 */RPOKX */SM1Q0 * READY */TRAIL
           */CLRTAG */IHOLD */LAYCN0 */LAYCN1 */LAYCN2 * FRQ1
       +  NLAY0 */NLAY1 */NLAY2 */RPOKX */SM1Q0 * READY */TRAIL
           */CLRTAG */IHOLD * LAYCN0 */LAYCN1 */LAYCN2 * FRQ1
       + /NLAY0 * NLAY1 */NLAY2 */RPOKX */SM1Q0 * READY */TRAIL
           */CLRTAG */IHOLD */LAYCN0 * LAYCN1 */LAYCN2 * FRQ1
       +  NLAY0 * NLAY1 */NLAY2 */RPOKX */SM1Q0 * READY */TRAIL
           */CLRTAG */IHOLD * LAYCN0 * LAYCN1 */LAYCN2 * FRQ1
       + /NLAY0 */NLAY1 * NLAY2 */RPOKX */SM1Q0 * READY */TRAIL
           */CLRTAG */IHOLD */LAYCN0 */LAYCN1 * LAYCN2 * FRQ1
       +  NLAY0 */NLAY1 * NLAY2 */RPOKX */SM1Q0 * READY */TRAIL
           */CLRTAG */IHOLD * LAYCN0 */LAYCN1 * LAYCN2 * FRQ1
```

```
       + /NLAY0 * NLAY1 * NLAY2 */RPOKX */SM1Q0 * READY */TRAIL
           */CLRTAG */IHOLD */LAYCN0 * LAYCN1 * LAYCN2 * FRQ1
       +  NLAY0 * NLAY1 * NLAY2 */RPOKX */SM1Q0 * READY */TRAIL
           */CLRTAG */IHOLD * LAYCN0 * LAYCN1 * LAYCN2 * FRQ1    ; High density
function block

 FLE  = /N2LAST0 */N2LAST1 */N2LAST2 */N2LAST3 */N2LAST4 */N2LAST5
           */N2LAST6 */N2LAST7 */N2LAST8 */N2LAST9 * PREFLE1
       +  PREFLE0    ; Fast function block

/IHOLD := /PREIHOLD    ; Fast function block
   IHOLD.CLKF =  CLK

/PREIHOLD := /UIM_1    ; Fast function block
   PREIHOLD.CLKF =  CLK

/LAST1  =  NLAY2 */LAYCN2
       + /NLAY2 * LAYCN2
       +  NLAY1 */LAYCN1
       + /NLAY1 * LAYCN1
       +  NLAY0 */LAYCN0
       + /NLAY0 * LAYCN0    ; High density function block

 HPOP  = /SM1Q0 */READY */TRAIL * CLRTAG
       + /EE */SM1Q0 */READY */TRAIL */HPOKX    ; High density function block

 RPOP  =  PRERPOP1
       + /N2LAST0 */N2LAST1 */N2LAST2 */N2LAST3 */N2LAST4 */N2LAST5
           */N2LAST6 */N2LAST7 */N2LAST8 */N2LAST9 * UIM_2    ; Fast function bl
ock

 PRERPOP0  = /RPOKX */SM1Q0 * READY */TRAIL */CLRTAG */IHOLD    ; Fast function
block

 PRERPOP1  =  EE */SM1Q0 */READY */TRAIL */CLRTAG */HPOKX    ; Fast function blo
ck

/LEP := /EP    ; High density function block
   LEP.CLKF =  CLK
   LEP.SETF =  INIT

/EEOUT  =  SM1Q0
       + /CLRTAG
       + /TRAIL
       +  READY    ; High density function block

/PUSH  = /READY */TRAIL
       +  EMPTY */TRAIL
       +  IHOLD    ; Fast function block

/EERESET  = /INIT */CLRTAG
       + /INIT * TRAIL
       + /INIT * READY
       + /INIT * SM1Q0    ; High density function block

/LAYCN0 := /TMOD */RPOKX */SM1Q0 */TRAIL */CLRTAG */IHOLD * LAYCN0
           * LAST2
       + /TMOD */RPOKX */SM1Q0 */READY */CLRTAG */IHOLD * LAYCN0
       + /TMOD */RPOKX */READY */TRAIL */CLRTAG * LAYCN0
       + /TMOD */SM1Q0 */READY */TRAIL */CLRTAG
       + /TMOD * SM1Q0 * TRAIL */LAYCN0
       + /TMOD * READY */LAYCN0 */LAST2
```



```
       + /TMOD * READY * LAST1 */LAYCN0
       + /TMOD */SM1Q0 * IHOLD */LAYCN0
       + /TMOD * READY * TRAIL */LAYCN0
       + /TMOD * SM1Q0 * READY */LAYCN0
       +  TMOD */IVADD17
       + /TMOD * CLRTAG */LAYCN0
       + /TMOD * RPOKX */LAYCN0    ; High density function block
   LAYCN0.CLKF =  CLK
   LAYCN0.RSTF =  INIT

/LAYCN1 := /TMOD */SM1Q0 */READY */TRAIL */CLRTAG
       + /TMOD */RPOKX */SM1Q0 */TRAIL */CLRTAG */IHOLD * LAST1
           * LAST2
       + /TMOD */RPOKX */SM1Q0 */TRAIL */CLRTAG */IHOLD * LAYCN0
           * LAYCN1 * LAST2
       + /TMOD */RPOKX */SM1Q0 */READY */CLRTAG */IHOLD * LAYCN0
           * LAYCN1
       + /TMOD */RPOKX */READY */TRAIL */CLRTAG * LAYCN0 * LAYCN1
       + /TMOD * SM1Q0 * TRAIL */LAYCN1
       + /TMOD * READY */LAYCN1 */LAST2
       + /TMOD * READY * TRAIL */LAYCN1
       + /TMOD * SM1Q0 * READY */LAYCN1
       + /TMOD */SM1Q0 * IHOLD */LAYCN1
       +  TMOD */IVADD18
       + /TMOD */LAYCN0 */LAYCN1
       + /TMOD * CLRTAG */LAYCN1
       + /TMOD * RPOKX */LAYCN1    ; High density function block
   LAYCN1.CLKF =  CLK
   LAYCN1.RSTF =  INIT

/LAYCN2 := /TMOD */SM1Q0 */READY */TRAIL */CLRTAG
       + /TMOD */RPOKX */SM1Q0 */TRAIL */CLRTAG */IHOLD * LAST1
           * LAST2
       + /TMOD */RPOKX */SM1Q0 */TRAIL */CLRTAG */IHOLD * LAYCN0
           * LAYCN1 * LAYCN2 * LAST2
       + /TMOD */RPOKX */SM1Q0 */READY */CLRTAG */IHOLD * LAYCN0
           * LAYCN1 * LAYCN2
       + /TMOD */RPOKX */READY */TRAIL */CLRTAG * LAYCN0 * LAYCN1
           * LAYCN2
       + /TMOD * SM1Q0 * TRAIL */LAYCN2
       + /TMOD * READY */LAYCN2 */LAST2
       + /TMOD * READY * TRAIL */LAYCN2
       + /TMOD * SM1Q0 * READY */LAYCN2
       + /TMOD */SM1Q0 * IHOLD */LAYCN2
       +  TMOD */IVADD19
       + /TMOD */LAYCN1 */LAYCN2
       + /TMOD */LAYCN0 */LAYCN2
       + /TMOD * CLRTAG */LAYCN2
       + /TMOD * RPOKX */LAYCN2    ; High density function block
   LAYCN2.CLKF =  CLK
   LAYCN2.RSTF =  INIT

/HITCN0 := /HITCN0 * EMPTY.PIN
       + /READY */HITCN0
       + /HITCN0 * LAST2
       + /SM1Q0 * READY */TRAIL */CLRTAG */IHOLD * LAST2
       +  READY */IHOLD * HITCN0 */EMPTY.PIN */LAST2
       + /SM1Q0 */READY * TRAIL */CLRTAG */IHOLD
       +  IHOLD */HITCN0    ; High density function block
   HITCN0.CLKF =  CLK
   HITCN0.RSTF =  INIT
```

```
/HITCN1 := /SM1Q0 * READY */TRAIL */CLRTAG */IHOLD * LAST2
       + /SM1Q0 */READY * TRAIL */CLRTAG */IHOLD
       + /HITCN1 * EMPTY.PIN
       +  READY */IHOLD * HITCN0 * HITCN1 */EMPTY.PIN */LAST2
       + /HITCN0 */HITCN1
       + /HITCN1 * LAST2
       + /READY */HITCN1
       +  IHOLD */HITCN1    ; High density function block
   HITCN1.CLKF =  CLK
   HITCN1.RSTF =  INIT

/HITCN2 := /SM1Q0 * READY */TRAIL */CLRTAG */IHOLD * LAST2
       + /SM1Q0 */READY * TRAIL */CLRTAG */IHOLD
       + /HITCN2 * EMPTY.PIN
       + /READY */HITCN2
       + /HITCN2 * LAST2
       + /HITCN0 */HITCN2
       + /HITCN1 */HITCN2
       +  READY */IHOLD * HITCN0 * HITCN1 * HITCN2 */EMPTY.PIN
           */LAST2
       +  IHOLD */HITCN2    ; High density function block
   HITCN2.CLKF =  CLK
   HITCN2.RSTF =  INIT

/HPOKX := /HPOKX * FHQ1
       + /HPOKX */HPOP
       +  HPOKX */FHQ1    ; Fast function block
   HPOKX.CLKF =  CLK
   HPOKX.SETF =  FSMINIT

 FHQ1 :=  HEFX0 * HEFX1 */FHQ1 */HPOP
       + /HEFX1 */HPOKX */FHQ1 * HPOP
       + /HEFX0 */HPOKX */FHQ1 * HPOP
       +  HEFX0 * HEFX1 * HPOKX */FHQ1
       +  HEFX0 * HEFX1 */HPOKX * FHQ1
       + /HEFX1 * HPOKX * FHQ1
       + /HEFX0 * HPOKX * FHQ1
       + /HPOKX * FHQ1 */HPOP    ; High density function block
   FHQ1.CLKF =  CLK
   FHQ1.SETF =  FSMINIT

/RPOKX := /RPOKX * FRQ1
       + /RPOKX */RPOP
       +  RPOKX */FRQ1    ; Fast function block
   RPOKX.CLKF =  CLK
   RPOKX.RSTF =  FSMINIT

 FRQ1 := /REFX1 */RPOKX */FRQ1 * RPOP
       + /REFX0 */RPOKX */FRQ1 * RPOP
       +  REFX0 * REFX1 * RPOKX */FRQ1
       +  REFX0 * REFX1 */RPOKX */RPOP
       +  REFX0 * REFX1 */RPOKX * FRQ1
       + /REFX1 * RPOKX * FRQ1
       + /REFX0 * RPOKX * FRQ1
       + /RPOKX * FRQ1 */RPOP    ; High density function block
   FRQ1.CLKF =  CLK
   FRQ1.RSTF =  FSMINIT

 SM1Q0 := /SM1Q0 * READY */TRAIL */CLRTAG */IHOLD * LAST1 * LAST2
       +  EE */SM1Q0 */READY */TRAIL */CLRTAG */HPOKX
       +  RPOKX */SM1Q0 */READY * TRAIL */CLRTAG */IHOLD
       +  RPOKX * SM1Q0 */READY */TRAIL */CLRTAG
```



```
       +  SM1Q0 * READY */TRAIL */CLRTAG */LAST2
       +  SM1Q0 * READY */TRAIL */CLRTAG * IHOLD    ; High density function bloc
k
   SM1Q0.CLKF =  CLK
   SM1Q0.RSTF =  FSMINIT

 READY :=  SM1Q0 * READY */TRAIL */CLRTAG */LAST2
       +  SM1Q0 * READY */TRAIL */CLRTAG * IHOLD
       + /RPOKX */EE */SM1Q0 */READY * TRAIL */CLRTAG */IHOLD
       + /RPOKX */EE * SM1Q0 */READY */TRAIL */CLRTAG
       + /SM1Q0 * READY */TRAIL */CLRTAG    ; High density function block
   READY.CLKF =  CLK
   READY.RSTF =  FSMINIT

 TRAIL :=  SM1Q0 * READY */TRAIL */CLRTAG */IHOLD * LAST2
       + /RPOKX * EE * SM1Q0 */READY */TRAIL */CLRTAG
       + /RPOKX * EE */SM1Q0 */READY * TRAIL */CLRTAG
       + /SM1Q0 */READY * TRAIL * IHOLD    ; Fast function block
   TRAIL.CLKF =  CLK
   TRAIL.RSTF =  FSMINIT

 CLRTAG := /RPOKX * EE * SM1Q0 */READY */TRAIL */CLRTAG
       + /RPOKX * EE */SM1Q0 */READY * TRAIL */IHOLD
       + /SM1Q0 */READY * TRAIL * CLRTAG    ; Fast function block
   CLRTAG.CLKF =  CLK
   CLRTAG.RSTF =  FSMINIT

/IVDATA22  = /IVADD19
       +  IVADD18 */HRSPY22.PIN
       +  IVADD17 */HRSPY22.PIN
       + /HRFQ22 */IVADD17 */IVADD18    ; Fast function block

/IVDATA21  = /IVADD19
       + /HRFQ21 */IVADD17 */IVADD18
       +  IVADD18 */HRSPY21.PIN
       +  IVADD17 */HRSPY21.PIN    ; Fast function block

/IVDATA6  = /IVADD19
       + /HRFQ6 * UIM_6
       + /HRSPY6.PIN */UIM_6    ; High density function block

/IVDATA5  = /IVADD19
       + /HRFQ5 * UIM_6
       + /HRSPY5.PIN */UIM_6    ; High density function block

/IVDATA4  = /HRFQ4 * UIM_6
       + /HRSPY4.PIN */UIM_6
       + /IVADD19    ; High density function block

 IVDATA3  = /IVADD19 */IVADD0 * IVADD1 * IVADD2 * CLRTAG
       +  IVADD19 * HRFQ3 * UIM_6
       +  IVADD19 * HRSPY3.PIN */UIM_6    ; High density function block

 IVDATA2  =  HFFULLX */IVADD19 * IVADD0 * IVADD1 */IVADD2
       +  RFFULLX */IVADD19 */IVADD0 */IVADD1 * IVADD2
       + /IVADD19 */IVADD0 * IVADD1 * IVADD2 * TRAIL
       +  IVADD19 * HRFQ2 * UIM_6
       +  IVADD19 * HRSPY2.PIN */UIM_6    ; High density function block

 IVDATA1  =  HFHFULLX */IVADD19 * IVADD0 * IVADD1 */IVADD2
       + /IVADD19 */IVADD0 * IVADD1 * IVADD2 * READY
       + /IVADD19 * IVADD0 */IVADD1 */IVADD2 * FRQ1
```

```
       +  RFHFULLX */IVADD19 */IVADD0 */IVADD1 * IVADD2
       +  IVADD19 * HRFQ1 * UIM_6
       + /IVADD19 */IVADD0 */IVADD1 */IVADD2 * FHQ1
       +  IVADD19 * HRSPY1.PIN */UIM_6    ; High density function block

 IVDATA0  = /IVADD19 * IVADD0 * IVADD1 */IVADD2 * UIM_3
       + /IVADD19 */IVADD0 */IVADD1 * IVADD2 * UIM_5
       + /IVADD19 */IVADD0 */IVADD1 */IVADD2 * HPOKX
       + /IVADD19 * IVADD0 */IVADD1 */IVADD2 * RPOKX
       + /IVADD19 */IVADD0 * IVADD1 * IVADD2 * SM1Q0
       + /IVADD19 * IVADD0 */IVADD1 * IVADD2 */IHOLD
       +  IVADD19 * HRFQ0 * UIM_6
       +  IVADD19 * HRSPY0.PIN */UIM_6    ; High density function block

 IVDATA31  =  IVADD19 */IVADD14 * UIM_3 * UIM_6
       +  IVADD19 * IVADD14 * UIM_6 * UIM_5    ; High density function block

/HRSPY22 := /HRFQ22    ; Fast function block
   HRSPY22.CLKF =  CLK
   HRSPY22.RSTF =  INIT

/HRSPY21 := /HRFQ21    ; Fast function block
   HRSPY21.CLKF =  CLK
   HRSPY21.RSTF =  INIT

/HRSPY6 := /HRFQ6    ; Fast function block
   HRSPY6.CLKF =  CLK
   HRSPY6.RSTF =  INIT

/HRSPY5 := /HRFQ5    ; Fast function block
   HRSPY5.CLKF =  CLK
   HRSPY5.RSTF =  INIT

/HRSPY4 := /HRFQ4    ; Fast function block
   HRSPY4.CLKF =  CLK
   HRSPY4.RSTF =  INIT

/HRSPY3 := /HRFQ3    ; Fast function block
   HRSPY3.CLKF =  CLK
   HRSPY3.RSTF =  INIT

/HRSPY2 := /HRFQ2    ; Fast function block
   HRSPY2.CLKF =  CLK
   HRSPY2.RSTF =  INIT

/HRSPY1 := /HRFQ1    ; Fast function block
   HRSPY1.CLKF =  CLK
   HRSPY1.RSTF =  INIT

/HRSPY0 := /HRFQ0    ; Fast function block
   HRSPY0.CLKF =  CLK
   HRSPY0.RSTF =  INIT

 RSWNLAY0  =  NLAY0    ; High density function block
   RSWNLAY0.TRST =  RDSWEN

 RSWNLAY1  =  NLAY1    ; High density function block
   RSWNLAY1.TRST =  RDSWEN

 RSWNLAY2  =  NLAY2    ; High density function block
   RSWNLAY2.TRST =  RDSWEN
```



```
RSWHLDEN  =  HOLDEN    ; High density function block
  RSWHLDEN.TRST =  RDSWEN

UIM_0  = /INIT * REFX0 * REFX1    ; UIM node

UIM_1  =  HOLD * HOLDEN    ; UIM node

UIM_2  =  LAST1 * PRERPOP0    ; UIM node

UIM_3  =  HEFX0 * HEFX1    ; UIM node

UIM_4  = /IVADD17 */IVADD18 */IVADD19 */AMVMEX    ; UIM node

UIM_5  =  REFX0 * REFX1    ; UIM node

UIM_6  = /IVADD17 */IVADD18    ; UIM node

UIM_7  = /HRFQ22 * FHLE    ; UIM node

UIM_8  = /SM1Q0 */READY    ; UIM node
```