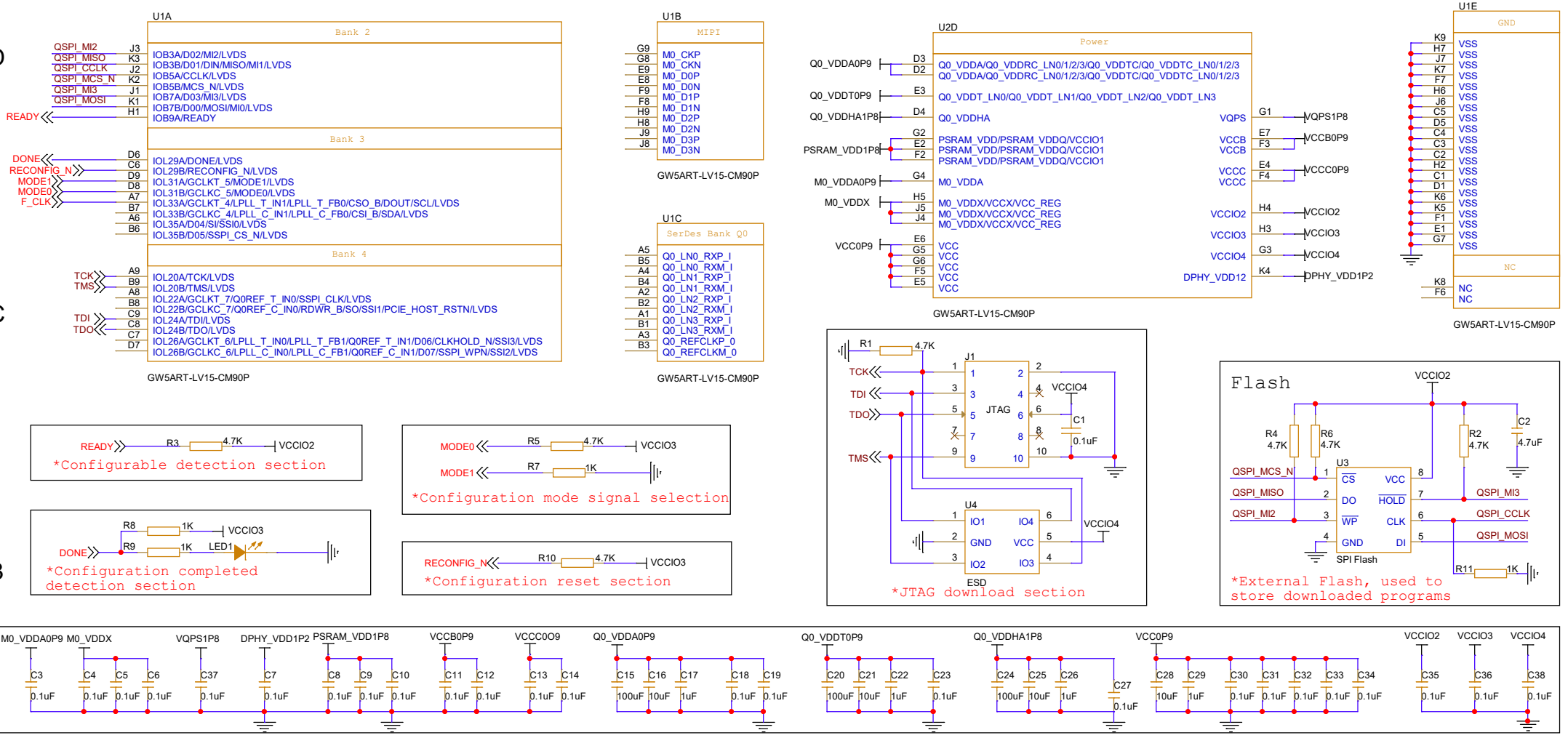
GW5ART-LV15CM90P



Notes:
1.F_CLK signal is an external input clock signal.
  It is recommended that F_CLK signal be provided through an active oscillator crystal.
2.External Flash memory is used to store downloaded programs.
3.It is recommended that add an ESD protection chip to the JTAG download circuit.
4.VCC core voltage requires a large current, so it is recommended to supply power separately.
5.The MODE pin is the GowinCONFIG configuration mode selection signal.

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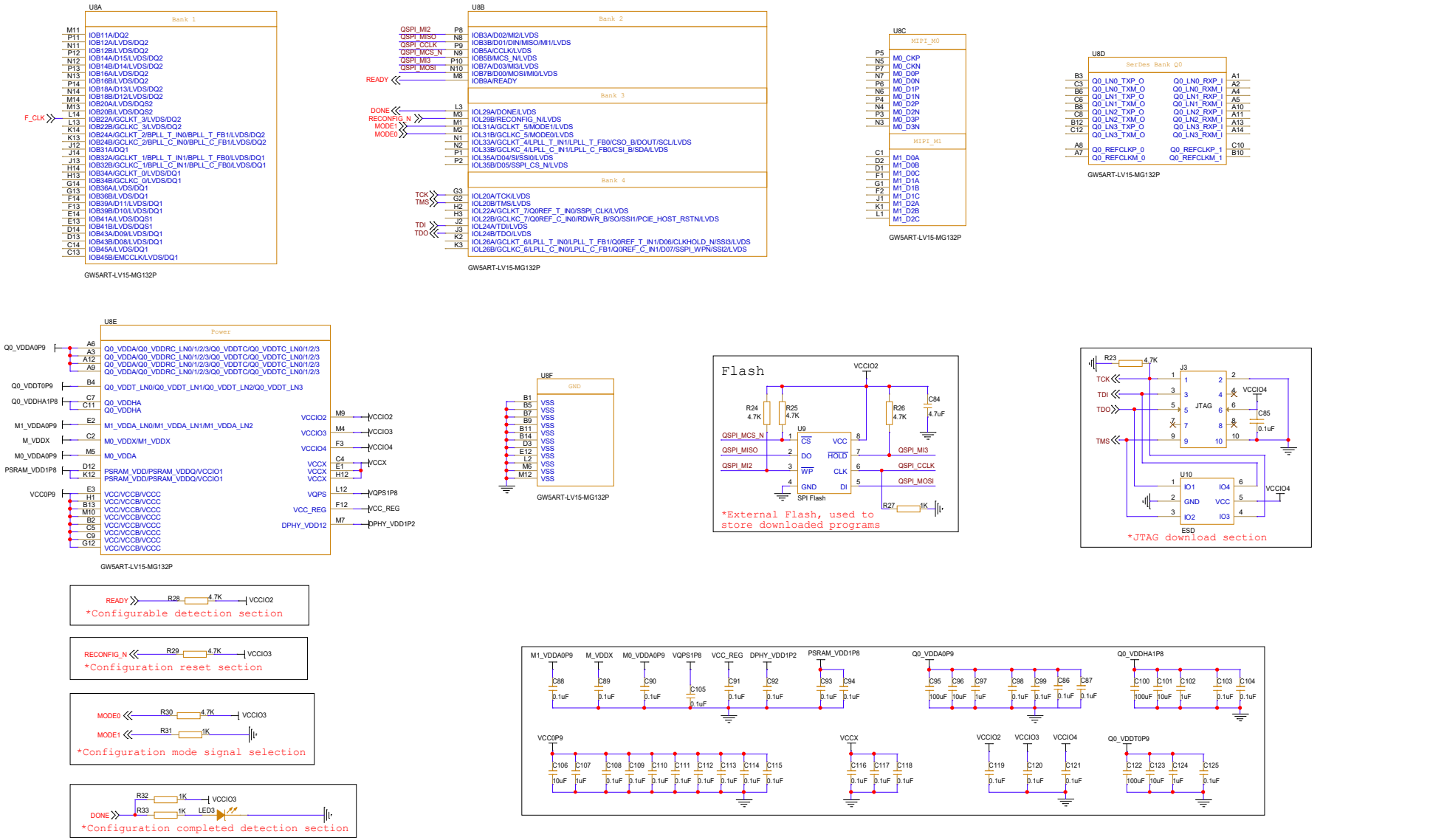

Notes:
1.F_CLK signal is an external input clock signal.
  It is recommended that F_CLK signal be provided through an active oscillator crystal.
2.External Flash memory is used to store downloaded programs.
3.It is recommended that add an ESD protection chip to the JTAG download circuit.
4.VCC core voltage requires a large current, so it is recommended to supply power separately.
5.The MODE pin is the GowinCONFIG configuration mode selection signal.

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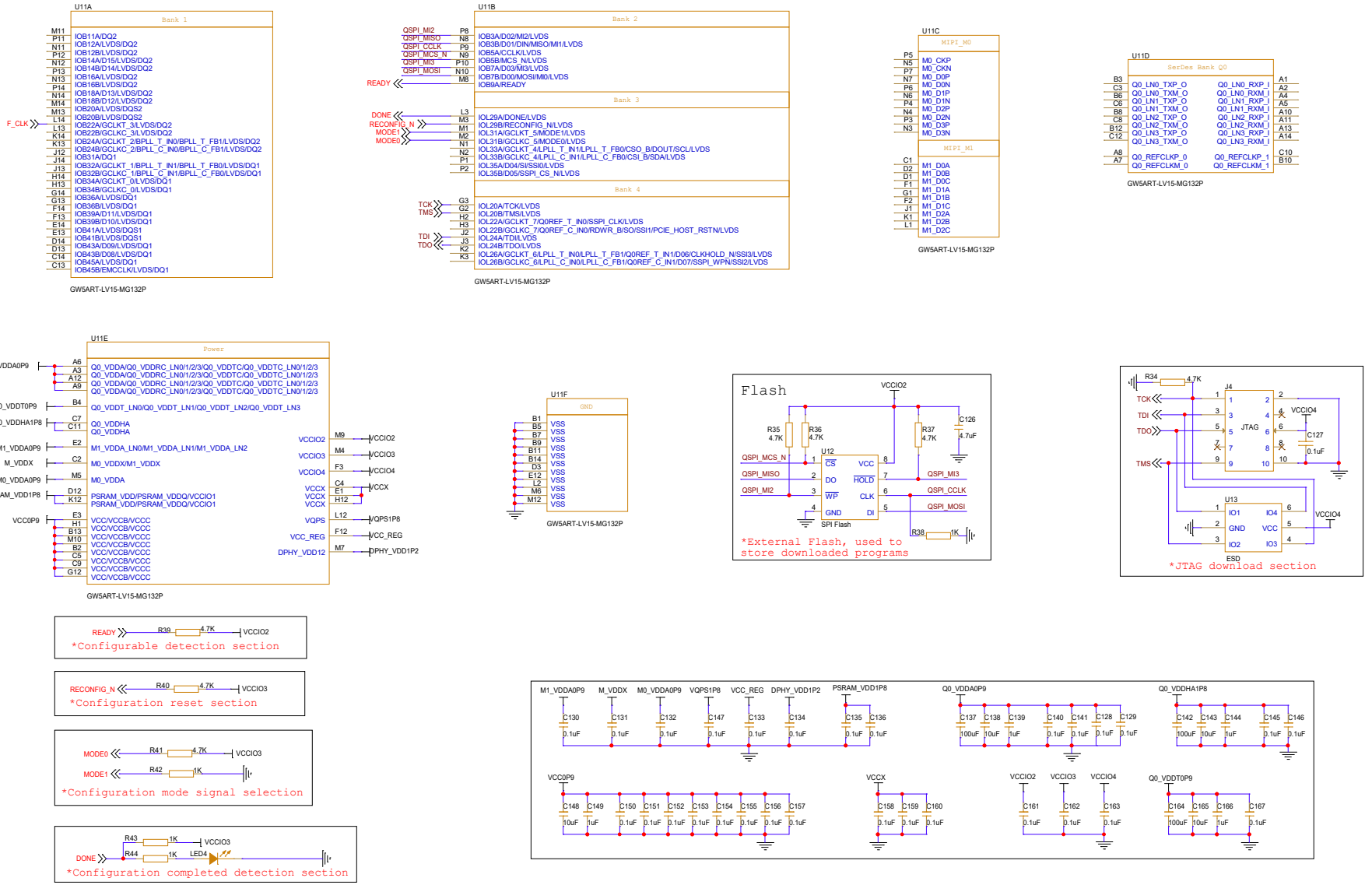

Notes:
1.F_CLK signal is an external input clock signal.
  It is recommended that F_CLK signal be provided through an active oscillator crystal.
2.External Flash memory is used to store downloaded programs.
3.It is recommended that add an ESD protection chip to the JTAG download circuit.
4.VCC core voltage requires a large current, so it is recommended to supply power separately.
5.The MODE pin is the GowinCONFIG configuration mode selection signal.

Title	GOWIN Minimum System Diagram	
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