

Sl. No.	Coverpoint Label	Signals/Items	Description	No. of Bins	Status
1	Write_Reset	WRSTN	Coverage for the Write Reset signal states.	2	COMPLETED
2	Write_Data	WDATA	Coverage for the range of data values being written.	3	COMPLETED
3	Write_Enable	WINC	Coverage for the Write Enable signal states.	2	COMPLETED
4	Read_Reset	RRSTN	Coverage for the Read Reset signal states.	2	COMPLETED
5	Read_Enable	RINC	Coverage for the Read Enable signal states.	2	COMPLETED
1	Write_Reset_vs_	WRSTN × WINC	Cross-coverage of Reset active/inactive during a write request.	3	COMPLETED
2	Read_Reset_vs_	RRSTN × RINC	Cross-coverage of Reset active/inactive during a read request.	3	COMPLETED
1	Full_Flag	WFULL	Coverage for the FIFO Full status flag.	2	COMPLETED
2	Read_Data	RDATA	Coverage for the range of data values being read.	3	COMPLETED
3	Empty_Flag	REMPY	Coverage for the FIFO Empty status flag.	2	COMPLETED
1	Empty_Read_Attempt	REMPY × RINC	Coverage of attempting a read when FIFO is empty (Underflow scenario)	4	COMPLETED
2	Full_Write_Attempt	WFULL × WINC	Coverage of attempting a write when FIFO is full (Overflow scenario)	4	COMPLETED