7.8.1.7.30 RNGCONTROL.REPEATTHRESHOLD

Address offset: 0x1024

Repetition Test Count Cut-Off value.

Bit number			31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0
ID			A A A A A A
Reset 0x00000029			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1 0 0 1

ID	R/W	Field	Value ID	Value	Description
A	RW	REPEATTHRESHOLD			Repetition Test Count Cut-Off value.

7.8.1.7.31 RNGCONTROL.PROPTHRESHOLD

Address offset: 0x1028

Adaptive Proportion Test (1024-sample window) Cut-Off value.

Bit number			31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0
ID			A A A A A A A A A A
Reset 0x00000319			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 1 1 0 0 1

ID	R/W	Field	Value ID	Value	Description
A	RW	PROPTHRESHOLD			Adaptive Proportion Test (1024-sample window) Cut-Off value.

7.8.1.7.32 RNGCONTROL.STATUS

Address offset: 0x1030

Status register.

Bit number			31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0
ID			I H G F E D C B B A
Reset 0x00000000			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

ID	R/W	Field	Value ID	Value	Description
A	R	TESTDATABUSY			High when data written to TestData register is being processed.
B	R	STATE			State of the control FSM:
			RESET	0	Reset
			STARTUP	1	Startup
			IDLERON	2	Idle (Rings On)
			IDLEROFF	3	Idle (Rings Off)
			FILLFIFO	4	Fill FIFO
			ERROR	5	Error
C	RW	REPFAIL			NIST-800-90B repetition Count Test interrupt status.
D	RW	PROPFAIL			NIST-800-90B adaptive Proportion Test (1024-sample window) interrupt status.
E	RW	FULLINT			FIFO full status.
F	RW	PREINT			AIS31 preliminary noise alarm interrupt status.
G	RW	ALMINT			AIS31 noise alarm interrupt status.
H	R	STARTUPFAIL			Start-up test failure.
I	RW	FIFOACCFAIL			Set when a FIFO data read is performed while the NDRNG is disabled AND has its FIFO empty (FIFOLevel = 0).

7.8.1.7.33 RNGCONTROL.INITWAITVAL

Address offset: 0x1034

NORDIC
SEMICONDUCTOR