field of the packet payload exceeds PCNF1.STATLEN, and the LENGTH field in the packet specifies a packet larger than configured in PCNF1.MAXLEN, the payload will be truncated to the length specified in PCNF1.MAXLEN.

> **Note:** The PCNF1.MAXLEN field includes the payload and the add-on, but excludes the size occupied by the S0, LENGTH, and S1 fields. This has to be taken into account when allocating RAM.

If the payload and add-on length is specified larger than PCNF1.MAXLEN, RADIO will transmit or receive in the same way as before, except the payload is now truncated to PCNF1.MAXLEN. The packet's LENGTH field will not be altered when the payload is truncated. RADIO will calculate CRC as if the packet length is equal to PCNF1.MAXLEN.

> **Note:** If PACKETPTR is not pointing to the RAM region, an EasyDMA transfer may result in a HardFault or RAM corruption. See Memory on page 13 for more information about the different memory regions.

The END event indicates that the last bit has been processed by RADIO. The DISABLED event is issued to acknowledge that the DISABLE task is done.

8.17.14 Registers

Instances

Instance	Domain	Base address	TrustZone			Split	Description
			Map	Att	DMA	access	
RADIO : S RADIO : NS	GLOBAL	0x5008A000 0x4008A000	US	S	SA	No	2.4 GHz radio RADIO See pinout for GPIO options for DFE antenna switch control

Configuration

Instance	Domain	Configuration
RADIO : S RADIO : NS	GLOBAL	For the PSEL registers, use only dedicated pins on port P1 No internal instantiation of DmaChannelPeripheral

Register overview

Register	Offset	TZ	Description
TASKS_TXEN	0x000		Enable RADIO in TX mode
TASKS_RXEN	0x004		Enable RADIO in RX mode
TASKS_START	0x008		Start RADIO
TASKS_STOP	0x00C		Stop RADIO
TASKS_DISABLE	0x010		Disable RADIO
TASKS_RSSISTART	0x014		Start the RSSI and take one single sample of the receive signal strength
TASKS_BCSTART	0x018		Start the bit counter
TASKS_BCSTOP	0x01C		Stop the bit counter
TASKS_EDSTART	0x020		Start the energy detect measurement used in IEEE 802.15.4 mode
TASKS_EDSTOP	0x024		Stop the energy detect measurement
TASKS_CCASTART	0x028		Start the clear channel assessment used in IEEE 802.15.4 mode
TASKS_CCASTOP	0x02C		Stop the clear channel assessment
TASKS_AUXDATADMASTART	0x038		Start DMA transaction of acquisition

NORDIC
SEMICONDUCTOR