

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				D D D C C C B B A A																															
Reset 0x00000001				0 1																															
ID	R/W	Field	Value ID	Value	Description																														
A	RW	MODE			The mode of operation to be used. The settings in this register apply when the CRYPT task is triggered.																														
			Encryption	0	AES CCM packet encryption mode																														
			Decryption	1	This mode will run CCM decryption in the speed of the DATARATE field.																														
			FastDecryption	2	This enumerator is deprecated.																														
				3	AES CCM decryption mode.																														
B	RW	PROTOCOL			Protocol and packet format selection																														
			Ble	0	Bluetooth Low Energy packet format																														
			ieee802154	1	802.15.4 packet format																														
				2																															
				3																															
C	RW	DATARATE			Radio data rate that the CCM shall run synchronous with																														
			125Kbit	0	125 Kbps																														
			250Kbit	1	250 Kbps																														
			500Kbit	2	500 Kbps																														
			1Mbit	3	1 Mbps																														
			2Mbit	4	2 Mbps																														
			4Mbit	5	4 Mbps																														
D	RW	MACLEN			CCM MAC length (bytes)																														
			M0	0	M = 0																														
					This is a special case for CCM* where encryption is required but not authentication																														
			M4	1	M = 4																														
			M6	2	M = 6																														
			M8	3	M = 8																														
			M10	4	M = 10																														
			M12	5	M = 12																														
			M14	6	M = 14																														
			M16	7	M = 16																														

#### 8.4.7.17 KEY.VALUE[n] (n=0..3)

Address offset: 0x510 + (n × 0x4)

128-bit AES key

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	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	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	W	VALUE						AES 128-bit key value, bits (32*(i+1))-1 : (32*i)																											

#### 8.4.7.18 NONCE.VALUE[n] (n=0..3)

Address offset: 0x520 + (n × 0x4)

13-byte NONCE vector

Only the lower 13 bytes are used