

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	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				
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.																														
			2	This enumerator is deprecated.																														
		FastDecryption	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		
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			
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