

Table 1. EDMA3 basic resource comparison between members of C6000 family

Group	Member	CC BASE	CC REV	CC CCCFG	Channels	Regions	TCs	PaRAM	IRQ	TC0 BASE	TC1 BASE	TC PID	According to
C642x	C6421	01C00000	40015300	00223445	64(8)	4	3	128	64	01c10000	01c10400	40003B00	SPRUEM5A
	C6424	01C00000	40015300	00223445	64(8)	4	3	128	64	01c10000	01c10400	40003B00	SPRUEM5A
DM643x	DM6433	01C00000	40015300	00223445	64(8)	4	3	128	64	01c10000	01c10400	40003B00	SPRU987A
	DM6435	01C00000	40015300	00223445	64(8)	4	3	128	64	01c10000	01c10400	40003B00	SPRU987A
	DM6437	01C00000	40015300	00223445	64(8)	4	3	128	64	01c10000	01c10400	40003B00	SPRU987A
DM644x	DM6441	01C00000	40011B00	00213445	64(8)	4	2	128	64	01c10000	01c10400	03334425	SPRUE23D
	DM6443	01C00000	40011B00	00213445	64(8)	4	2	128	64	01c10000	01c10400	03334425	SPRUE23D
	DM6446	01C00000	40011B00	00213445	64(8)	4	2	128	64	01c10000	01c10400	03334425	SPRUE23D
C645x	C6452	02A00000	40011B00	03334425	64(4)	8	4	256	64	02A20000	02A28000	03334425	SPRU996B
	C6454	02A00000	40011B00	03334425	64(4)	8	4	256	64	02A20000	02A28000	03334425	SPRU996B
	C6455	02A00000	40011B00	03334425	64(4)	8	4	256	64	02A20000	02A28000	03334425	SPRU996B
	C6457	02A00000	40018B00	03354445	64(8)	8	6	256	64	02A20000	02A28000	40008300	SPRUGK6
C647x	C6472	02A00000	40011B00	03334425	64(4)	8	4	256	64	02A20000	02A28000	03334425	SPRU727E
	TCI6482	02A00000	40011B00	03334425	64(4)	8	4	256	64	02A20000	02A28000	03334425	SPRU727E
	TCI6486	02A00000	40011B00	03334425	64(4)	8	4	256	64	02A20000	02A28000	03334425	SPRU727E
	TCI6487	02A00000	40015300	03334425	64(8)	8	6	256	64	02A20000	02A28000	40003300	SPRU727E
	TCI6488	02A00000	40015300	03334425	64(8)	8	6	256	64	02A20000	02A28000	40003300	SPRU727E
	C6474	02A00000	40015300	03334425	64(8)	8	6	256	64	02A20000	02A28000	40003300	SPRUG711B
C667x	C6678.CC0	02700000	4001????	03313243	16(8)	8	2	128	16	02760000	02768000	4000????	SPRUGS5A
	C6678.CC1	02720000	4001????	03335445	64(8)	8	4	512	64	02770000	02778000	4000????	SPRUGS5A
	C6678.CC2	02740000	4001????	03335445	64(8)	8	4	512	64	02790000	02798000	4000????	SPRUGS5A
C674x	C6743	01C00000	40015300	00213344	32(8)	4	2	128	32	01c08000	01c08400	40003B00	SPRUH90B
	C6745	01C00000	40015300	00213344	32(8)	4	2	128	32	01c08000	01c08400	40003B00	SPRUH91B
	C6747	01C00000	40015300	00213344	32(8)	4	2	128	32	01c08000	01c08400	40003B00	SPRUH91B
	C6748	01C00000	40015300	00223445	32(8)	4	2	128	32	01c08000	01c08400	40003B00	SPRUH79A

NOTES:

1. CC BASE = base address for EDMA Channel Controller registers
2. CC REV = value of Channel Controller peripheral ID register
3. CC CCCFG = value of Channel Controller Configuration register
4. Number of QDMA channels is shown in parenthesis after EDMA channels
5. TCs = number of Transfer Controllers ruled by a channel controller.

6. Some formulas inferred from EDMA CCCFG:
 1. EDMA Channels = $1 \ll (1 + \text{CCCFG.NUM_DMACH})$;
 2. QDMA Channels = $2 * \text{CCCFG.NUM_QDMACH}$;
 3. Interrupts = $1 \ll (2 + \text{CCCFG.NUM_INTCH})$;
 4. PARAM Entries = $1 \ll (4 + \text{CCCFG.NUM_PAENTRY})$;
 5. TC = $1 + \text{CCCFG.NUM_EVQUE}$;
 6. Regions = $1 \ll \text{CCCFG.NUM_REGN}$;